OIPE

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/092,900

DATE: 11/01/2002
TIME: 12:24:29

See also pp. 85, 86, 87 & other errors

Input Set : N:\EBONY'S\EP.txt
Output Set: N:\CRF4\11012002\J092900.raw

```
 1 <110> APPLICANT: Padigaru, Muralidhara
 2         Spytek, Kimberly A.
 3         Shenoy, Suresh G.
 4         Taupier Jr., Raymond J.
 5         Pena, Carol E.A.
 6         Li, Li
 7         Zerhusen, Bryan D.
 8         Gusev, Vladimir Y.
 9         Ji, Weizhen
10         Gorman, Linda
11         Miller, Charles E.
12         Kekuda, Ramesh
13         Patturajan, Meera
14         Gangolli, Esha A.
15         Vernet, Corine A.M.
16         Guo, Xiaojia Sasha
17         Tchernev,, Velizar T.
18         Fernandes, Elma R.
19         Casman, Stacie J.
20         Malyankar, Uriel M.
21         Gerlach, Valerie
22         Liu, Yi
23         Anderson, David W.
24         Spaderna, Steven K.
25         Catterton, Elina
26         Leite, Mario W.
27         Zhong, Haihong
28         Alsobrook, John P.
29         Lepley, Denise M.
30         Rieger, Daniel K.
```
W--> 31   **Burgess, Catherine E.**
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33 <120> TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
35 <130> FILE REFERENCE: 21402-290C
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C--> 37 **<140> CURRENT APPLICATION NUMBER: US/10/092,900**
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38 <141> CURRENT FILING DATE: 2002-03-07
40 <150> PRIOR APPLICATION NUMBER: USSN 60/274,322
41 <151> PRIOR FILING DATE: 2001-03-08
43 <150> PRIOR APPLICATION NUMBER: USSN 60/283,675
44 <151> PRIOR FILING DATE: 2001-04-13
46 <150> PRIOR APPLICATION NUMBER: USSN 60/338,092
47 <151> PRIOR FILING DATE: 2001-12-03
49 <150> PRIOR APPLICATION NUMBER: USSN 60/274,281
50 <151> PRIOR FILING DATE: 2001-03-08
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/092,900

DATE: 11/01/2002
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Input Set : **N:\EBONY'S\EP.txt**
Output Set: **N:\CRF4\11012002\J092900.raw**

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    199 <150> PRIOR APPLICATION NUMBER: USSN 60/279,344
    200 <151> PRIOR FILING DATE: 2001-03-28
    202 <150> PRIOR APPLICATION NUMBER: USSN 60/332,271
    203 <151> PRIOR FILING DATE: 2001-11-14
    205 <150> PRIOR APPLICATION NUMBER: USSN 60/291,099
    206 <151> PRIOR FILING DATE: 2001-05-16
    208 <150> PRIOR APPLICATION NUMBER: USSN 60/291,190
W--> 209 <151> PRIOR FILING DATE: 2001-5-15
    211 <150> PRIOR APPLICATION NUMBER: USSN 60/280,233
    212 <151> PRIOR FILING DATE: 2001-03-30
    214 <150> PRIOR APPLICATION NUMBER: USSN 60/280,802
    215 <151> PRIOR FILING DATE: 2001-04-02
    217 <150> PRIOR APPLICATION NUMBER: USSN 60/335,301
    218 <151> PRIOR FILING DATE: 2001-10-31
    220 <150> PRIOR APPLICATION NUMBER: USSN 60/337,185
    221 <151> PRIOR FILING DATE: 2001-12-04
    223 <150> PRIOR APPLICATION NUMBER: USSN 60/345,705
    224 <151> PRIOR FILING DATE: 2002-01-03
    226 <160> NUMBER OF SEQ ID NOS: 768
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ERRORED SEQUENCES

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   3917 <212> TYPE: PRT
   3918 <213> ORGANISM: Homo sapiens
   3920 <400> SEQUENCE: 38
   3921 Met Phe Ser Gly Thr Leu Gly Lys Asn Met Lys Thr Gln Pro Pro Leu
   3922   1               5                  10                  15
   3924 Ser Arg Met Asn Arg Glu Glu Leu Glu Asp Ser Phe Phe Arg Leu Arg
   3925              20                  25                  30
   3927 Glu Asp His Met Leu Val Lys Glu Leu Ser Trp Lys Gln Gln Asp Glu
   3928              35                  40                  45
   3930 Ile Lys Arg Leu Arg Thr Thr Leu Leu Arg Leu Thr Ala Ala Gly Arg
   3931          50                  55                  60
   3933 Asp Leu Arg Val Ala Glu Glu Ala Ala Pro Leu Ser Glu Thr Ala Arg
   3934  65                  70                  75                  80
   3936 Arg Gly Gln Lys Ala Gly Trp Arg Gln Arg Leu Ser Met His Gln Arg
   3937              85                  90                  95
   3939 Pro Gln Met His Arg Leu Gln Gly His Phe His Cys Val Gly Pro Ala
   3940             100                 105                 110
   3942 Ser Pro Arg Arg Ala Gln Pro Arg Val Gln Val Gly His Arg Gln Leu
   3943             115                 120                 125
   3945 His Thr Ala Gly Ala Pro Val Pro Glu Lys Pro Lys Arg Gly Arg Asp
   3946         130                 135                 140
   3948 Arg Leu Ser Tyr Thr Ala Pro Pro Ser Phe Lys Glu His Ala Thr Asn
   3949 145                 150                 155                 160
   3951 Glu Asn Arg Gly Glu Val Ala Ser Lys Pro Ser Glu Leu Ala His Ile
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/092,900

DATE: 11/01/2002
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Input Set : N:\EBONY'S\EP.txt
Output Set: N:\CRF4\11012002\J092900.raw

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4099 945               950               955               960
4101 Ile Leu Asn Gly Asn Thr Leu Lys Gln Val Asn Tyr Thr Glu Trp Lys
4102               965               970               975
4104 Phe Ser Glu Thr Asn Ser Phe Ile Gly Asp Gly Phe Lys Asn Gln His
4105               980               985               990
4107 Glu Glu Glu Glu Met Thr Leu Ser His Ser Ala Leu Lys Gln Lys Glu
E--> 4108          995          1000          1005
4110 Pro Leu His Pro Val Asn Asp Lys Glu Ser Ser Glu Gln Gly Ser
E--> 4111     1010          1015          1020
4113 Val Ser Glu Ala Gln Thr Thr Asp Ser Asp Asp Val Ile Val Pro Pro
E--> 4114 1025          1030          1035          1040
4116 Met Ser Gln Lys Tyr Pro Lys Ala Asp Ser Glu Lys Met Cys Ile Glu
E--> 4117          045          050          055
4119 Ile Val Ser Leu Ala Phe Tyr Pro Glu Ala Glu Val Met Ser Asp Glu
E--> 4120          060          065          070
4122 Asn Ile Lys Gln Val Tyr Val Glu Tyr Lys Phe Tyr Asp Leu Pro Leu
E--> 4123          075          080          085
4125 Ser Glu Thr Glu Thr Pro Val Ser Leu Arg Lys Pro Arg Ala Gly Glu
E--> 4126          090          095          100
4128 Glu Ile His Phe His Phe Ser Lys Val Ile Asp Leu Asp Pro Gln Glu
E--> 4129 105          110          115          120
4131 Gln Gln Gly Arg Arg Arg Phe Leu Phe Asp Met Leu Asn Gly Gln Asp
E--> 4132          125          130          135
4134 Pro Asp Gln Gly Gln Leu Lys Phe Thr Val Val Ser Asp Pro Leu Asp
E--> 4135          140          145          150
4137 Glu Glu Lys Lys Glu Cys Glu Glu Val Gly Tyr Ala Tyr Leu Gln Leu
E--> 4138          155          160          165
4140 Trp Gln Ile Leu Glu Ser Gly Arg Asp Ile Leu Glu Gln Glu Leu Asp
E--> 4141 170          175          180
4143 Val Val Ser Pro Glu Asp Leu Ala Thr Pro Ile Gly Arg Leu Lys Val
E--> 4144 185          190          195          200
4146 Ser Leu Gln Ala Ala Ala Val Leu His Ala Ile Tyr Lys Glu Met Thr
E--> 4147          205          210          215
4149 Glu Asp Leu Phe Ser
E--> 4150          220
8708 <210> SEQ ID NO: 76
8709 <211> LENGTH: 2545
8710 <212> TYPE: PRT
8711 <213> ORGANISM: Homo sapiens
8713 <400> SEQUENCE: 76
8714 Met Val Ala Leu Ser Leu Lys Ile Cys Val Arg His Cys Asn Val Val
8715   1               5               10               15
8717 Lys Thr Met Gln Phe Glu Pro Ser Thr Ala Val Tyr Asp Ala Cys Arg
8718          20          25          30
8720 Val Ile Arg Glu Arg Val Pro Glu Ala Gln Thr Gly Gln Ala Ser Asp
8721          35          40          45
8723 Tyr Gly Leu Phe Leu Ser Asp Glu Asp Pro Arg Lys Gly Ile Trp Leu
8724          50          55          60
8726 Glu Ala Gly Arg Thr Leu Asp Tyr Tyr Met Leu Arg Asn Gly Asp Ile
```

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

[handwritten] Where digits were missing from amino numbering!!

RAW SEQUENCE LISTING   DATE: 11/01/2002
PATENT APPLICATION: US/10/092,900   TIME: 12:24:29

Input Set : N:\EBONY'S\EP.txt
Output Set: N:\CRF4\11012002\J092900.raw

```
       8874      850                   855                 860
       8876 Ala Ala Lys Leu Leu Ala Asp Ser Thr Ala Arg Met Val Glu Ala Ala
       8877 865                   870                 875             880
       8879 Lys Gly Ala Ala Ala Asn Pro Glu Asn Glu Asp Gln Gln Gln Arg Leu
       8880                   885                 890             895
       8882 Arg Glu Ala Ala Glu Gly Leu Arg Val Ala Thr Asn Ala Ala Ala Gln
       8883             900                 905             910
       8885 Asn Ala Ile Lys Lys Lys Ile Val Asn Arg Leu Glu Val Ala Ala Lys
       8886             915                 920             925
       8888 Gln Ala Ala Ala Ala Ala Thr Gln Thr Ile Ala Ala Ser Gln Asn Ala
       8889      930                 935             940
       8891 Ala Val Ser Asn Lys Asn Pro Ala Ala Gln Gln Gln Leu Val Gln Ser
       8892 945                   950                 955             960
       8894 Cys Lys Ala Val Ala Asp His Ile Pro Gln Leu Val Gln Gly Val Arg
       8895             965                 970                 975
       8897 Gly Ser Gln Ala Gln Ala Glu Asp Leu Ser Ala Gln Leu Ala Leu Ile
       8898             980                 985                 990
       8900 Ile Ser Ser Gln Asn Phe Leu Gln Pro Gly Ser Lys Met Val Ser Ser
E--> 8901             995                 000                 005
       8903 Ala Lys Ala Ala Val Pro Thr Val Ser Asp Gln Ala Ala Ala Met Gln
E--> 8904      010                 015                 020
       8906 Leu Ser Gln Cys Ala Lys Asn Leu Ala Thr Ser Leu Ala Glu Leu Arg
E--> 8907 025                   030                 035             040
       8909 Thr Ala Ser Gln Lys Ala His Glu Ala Cys Gly Pro Met Glu Ile Asp
E--> 8910             045                 050                 055
       8912 Ser Ala Leu Asn Thr Val Gln Thr Leu Lys Asn Glu Leu Gln Asp Ala
E--> 8913             060                 065                 070
       8915 Lys Met Ala Ala Val Glu Ser Gln Leu Lys Pro Leu Pro Gly Glu Thr
E--> 8916             075                 080                 085
       8918 Leu Glu Lys Cys Ala Gln Asp Leu Gly Ser Thr Ser Lys Ala Val Gly
E--> 8919      090                 095                 100
       8921 Ser Ser Met Ala Gln Leu Leu Thr Cys Ala Ala Gln Gly Asn Glu His
E--> 8922 105                   110                 115             120
       8924 Tyr Thr Gly Val Ala Ala Arg Glu Thr Ala Gln Ala Leu Lys Thr Leu
E--> 8925             125                 130                 135
       8927 Ala Gln Ala Ala Arg Gly Val Ala Ala Ser Thr Thr Asp Pro Ala Ala
E--> 8928             140                 145                 150
       8930 Ala His Ala Met Leu Asp Ser Ala Arg Asp Val Met Glu Gly Ser Ala
E--> 8931             155                 160                 165
       8933 Met Leu Ile Gln Glu Ala Lys Gln Ala Leu Ile Ala Pro Gly Asp Ala
E--> 8934      170                 175                 180
       8936 Glu Arg Gln Gln Arg Leu Ala Gln Val Ala Lys Ala Val Ser His Ser
E--> 8937 185                   190                 195             200
       8939 Leu Asn Asn Cys Val Asn Cys Leu Pro Gly Gln Lys Asp Val Asp Val
E--> 8940             205                 210                 215
       8942 Ala Leu Lys Ser Ile Gly Glu Ser Ser Lys Lys Leu Leu Val Asp Ser
E--> 8943             220                 225                 230
       8945 Leu Pro Pro Ser Thr Lys Pro Phe Gln Glu Ala Gln Ser Glu Leu Asn
E--> 8946             235                 240                 245
```

RAW SEQUENCE LISTING   DATE: 11/01/2002
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Input Set : N:\EBONY'S\EP.txt
Output Set: N:\CRF4\11012002\J092900.raw

```
E--> 9168              420              425              430
     9170 Lys Gln Val Ala Ala Ser Thr Ala Gln Leu Leu Val Ala Cys Lys Val
E--> 9171              435              440              445
     9173 Lys Ala Asp Gln Asp Ser Glu Ala Met Arg Arg Leu Gln Ala Ala Gly
E--> 9174       450              455              460
     9176 Asn Ala Val Lys Arg Ala Ser Asp Asn Leu Val Arg Ala Ala Gln Lys
E--> 9177 465                    470              475              480
     9179 Ala Ala Phe Gly Lys Ala Asp Asp Asp Asp Val Val Val Glu Thr Lys
E--> 9180              485              490              495
     9182 Phe Val Gly Gly Ile Ala Gln Ile Ile Ala Ala Gln Glu Glu Met Leu
E--> 9183              500              505              510
     9185 Lys Lys Glu Arg Glu Leu Glu Glu Ala Arg Lys Lys Leu Ala Gln Ile
E--> 9186              515              520              525
     9188 Arg Gln Gln Gln Tyr Lys Phe Leu Pro Thr Glu Leu Arg Glu Asp Glu
E--> 9189       530              535              540
     9191 Gly
E--> 9192 545
     10097 <210> SEQ ID NO: 82
     10098 <211> LENGTH: 1419
     10099 <212> TYPE: PRT
     10100 <213> ORGANISM: Homo sapiens
     10102 <400> SEQUENCE: 82
     10103 Met Thr Trp Asp Thr Ala Leu Trp Thr Ser Val Phe Leu Ile Gly Leu
     10104   1               5              10                   15
     10106 Leu Pro Thr Leu Gly Phe Ala Asn Cys Ile Leu Gln Thr Ser Gly Lys
     10107              20              25              30
     10109 Met Cys Thr Leu Arg Gly Arg Tyr Pro Gln Pro Pro Gln Pro Pro Leu
     10110          35              40              45
     10112 Cys Leu Ser Pro Leu Val His Gln Leu Arg Pro Ala Asp Ile Lys Val
     10113      50              55              60
     10115 Val Ala Ala Leu Gly Asn Asp Glu Thr Phe Gln Glu Ser Gly Ala Gly
     10116   65              70              75              80
     10118 Gln Leu Ser Glu Pro Asp Pro Arg Gln Trp Ser Trp Pro Gln Ala Cys
     10119              85              90              95
     10121 Leu Pro Gly Val Lys Lys Glu Met Gln Asp Val Val Gly Glu Arg Thr
     10122          100             105             110
     10124 Pro Ser Arg Arg Arg Ser Leu Arg Arg Arg Glu Ala Leu Val Pro Ala
     10125          115             120             125
     10127 Ala Gly Lys Glu Ser Leu Cys Arg Gln Asp Ile Phe Ile Ser Leu Leu
     10128      130             135             140
     10130 Glu Ile Ile Lys His Phe Pro Pro Ser Pro Gln Asp Ile Asn Leu Glu
     10131 145             150             155                 160
     10133 Lys Asp Trp Lys Leu Val Thr Leu Phe Ile Gly Val Asn Asp Leu Cys
     10134              165             170                 175
     10136 His Tyr Cys Pro Leu Val Gln Gly Pro Val Ile Asp Leu Gly Gly Met
     10137              180             185             190
     10139 Asp Thr Leu His Ser Leu Gln Leu Pro Arg Ala Phe Val Asn Val Val
     10140          195             200             205
     10142 Glu Val Met Glu Leu Ala Ser Leu Tyr Gln Gly Gln Gly Gly Lys Cys
```

```
              RAW SEQUENCE LISTING                    DATE: 11/01/2002
              PATENT APPLICATION:  US/10/092,900      TIME: 12:24:29

                 Input Set : N:\EBONY'S\EP.txt
                 Output Set: N:\CRF4\11012002\J092900.raw

E--> 10290        995                000                     005
     10292 Gln Asn Glu Pro Phe Leu Arg Thr Pro Arg Asn Ser Asn Tyr Thr Tyr
E--> 10293        010                015                     020
     10295 Pro Ile Lys Pro Ala Ile Glu Asn Trp Gly Ser Asp Phe Leu Cys Thr
E--> 10296 025                030                     035                040
     10298 Glu Trp Lys Ala Ser Asn Ser Val Pro Thr Ser Val His Gln Leu Arg
E--> 10299        045                050                     055
     10301 Pro Ala Asp Ile Lys Val Val Ala Ala Leu Gly Asp Ser Leu Thr Thr
E--> 10302        060                065                     070
     10304 Ala Val Gly Ala Arg Pro Asn Asn Ser Ser Asp Leu Pro Thr Ser Trp
E--> 10305        075                080                     085
     10307 Arg Gly Leu Ser Trp Ser Ile Gly Gly Asp Gly Asn Leu Glu Thr His
E--> 10308        090                095                     100
     10310 Thr Thr Leu Pro Ser Ile Leu Lys Lys Phe Asn Pro Tyr Leu Leu Gly
E--> 10311 105                110                     115                120
     10313 Phe Ser Thr Ser Thr Trp Glu Gly Thr Ala Gly Leu Asn Val Ala Ala
E--> 10314        125                130                     135
     10316 Glu Gly Ala Arg Ala Arg Arg Asp Met Pro Ala Gln Ala Trp Asp Leu
E--> 10317        140                145                     150
     10319 Val Glu Arg Met Lys Asn Ser Pro Ile His Phe Gln Glu Asp Trp Lys
E--> 10320        155                160                     165
     10322 Ile Ile Thr Leu Phe Ile Gly Gly Asn Asp Leu Cys Asp Phe Cys Asn
E--> 10323        170                175                     180
     10325 Asp Leu Val Gly Glu Tyr Val Gln His Ile Gln Gln Ala Leu Asp Ile
E--> 10326 185                190                     195                200
     10328 Leu Ser Glu Glu Leu Pro Arg Ala Phe Val Asn Val Val Glu Val Met
E--> 10329        205                210                     215
     10331 Glu Leu Ala Ser Leu Tyr Gln Gly Gln Gly Gly Lys Cys Ala Met Leu
E--> 10332        220                225                     230
     10334 Ala Ala Gln Asn Asn Cys Thr Cys Leu Arg His Ser Gln Ser Ser Leu
E--> 10335        235                240                     245
     10337 Glu Lys Gln Glu Leu Lys Lys Val Asn Trp Asn Leu Gln His Gly Ile
E--> 10338        250                255                     260
     10340 Ser Ser Phe Ser Tyr Trp His Gln Tyr Thr Gln Arg Glu Asp Phe Ala
E--> 10341 265                270                     275                280
     10343 Val Val Val Gln Pro Phe Phe Gln Asn Thr Leu Thr Pro Leu Asn Arg
E--> 10344        285                290                     295
     10346 Gly Asp Thr Asp Leu Thr Phe Phe Ser Glu Asp Cys Phe His Phe Ser
E--> 10347        300                305                     310
     10349 Asp Arg Gly His Ala Glu Met Ala Ile Ala Leu Trp Asn Asn Met Leu
E--> 10350        315                320                     325
     10352 Glu Pro Val Gly Arg Lys Thr Thr Ser Asn Asn Phe Thr His Ser Arg
E--> 10353        330                335                     340
     10355 Ala Lys Leu Lys Cys Pro Ser Pro Val Ser Pro Tyr Leu Tyr Thr Leu
E--> 10356 345                350                     355                360
     10358 Arg Asn Ser Arg Leu Leu Pro Asp Gln Ala Glu Glu Ala Pro Glu Val
E--> 10359        365                370                     375
     10361 Leu Tyr Trp Ala Val Pro Val Ala Ala Gly Val Gly Leu Val Val Gly
E--> 10362        380                385                     390
```

RAW SEQUENCE LISTING   DATE: 11/01/2002
PATENT APPLICATION: **US/10/092,900**   TIME: 12:24:29

Input Set : **N:\EBONY'S\EP.txt**
Output Set: **N:\CRF4\11012002\J092900.raw**

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      10364 Ile Ile Gly Thr Val Val Trp Arg Cys Arg Arg Gly Gly Arg Arg Glu
E--> 10365         395             400             405
      10367 Asp Pro Pro Met Ser Leu Arg Thr Val Ala Leu
E--> 10368         410             415
      10962 <210> SEQ ID NO: 86
      10963 <211> LENGTH: 1423
      10964 <212> TYPE: PRT
      10965 <213> ORGANISM: Homo sapiens
      10967 <400> SEQUENCE: 86
      10968 Met Gly Leu Arg Pro Gly Ile Phe Leu Leu Glu Leu Leu Leu Leu Leu
      10969   1               5               10                  15
      10971 Gly Gln Gly Thr Pro Gln Ile His Thr Ser Pro Arg Lys Ser Thr Leu
      10972             20              25              30
      10974 Glu Gly Gln Leu Trp Pro Glu Thr Val His Ser Leu Lys Pro Ser Asp
      10975             35              40              45
      10977 Ile Lys Phe Val Ala Ala Ile Gly Asn Leu Glu Ile Val Pro Asp Pro
      10978         50              55              60
      10980 Gly Thr Gly Asp Leu Glu Lys Gln Asp Glu Arg Pro Gln Gln Val Cys
      10981  65              70              75                  80
      10983 Met Gly Val Met Thr Val Leu Ser Asp Ile Ile Arg Tyr Phe Ser Pro
      10984             85              90                  95
      10986 Ser Val Pro Met Pro Val Cys His Thr Gly Lys Arg Val Ile Pro His
      10987             100             105             110
      10989 Asp Gly Ala Glu Asp Leu Trp Ile Gln Ala Gln Glu Leu Val Arg Asn
      10990             115             120             125
      10992 Met Lys Glu Asn Gln Leu Asp Phe Gln Phe Asp Trp Lys Leu Ile Asn
      10993         130             135             140
      10995 Val Phe Phe Ser Asn Ala Ser Gln Cys Tyr Leu Cys Pro Ser Ala Gln
      10996 145             150             155             160
      10998 Gln Asn Gly Leu Ala Ala Gly Gly Val Asp Glu Leu Met Gly Val Leu
      10999             165             170             175
      11001 Asp Tyr Leu Gln Gln Glu Val Pro Arg Ala Phe Val Asn Leu Val Asp
      11002             180             185             190
      11004 Leu Ser Glu Val Ala Glu Val Ser Arg Gln Tyr His Gly Thr Trp Leu
      11005             195             200             205
      11007 Ser Pro Ala Pro Glu Pro Cys Asn Cys Ser Glu Glu Thr Thr Arg Leu
      11008         210             215             220
      11010 Ala Lys Val Val Met Gln Trp Ser Tyr Gln Glu Ala Trp Asn Ser Leu
      11011 225             230             235             240
      11013 Leu Ala Ser Ser Arg Tyr Ser Glu Gln Glu Ser Phe Thr Val Val Phe
      11014             245             250             255
      11016 Gln Pro Phe Phe Tyr Glu Thr Thr Pro Ser Asp Pro Arg Leu Gln Asp
      11017             260             265             270
      11019 Ser Thr Thr Leu Ala Trp His Leu Trp Asn Arg Met Met Glu Pro Ala
      11020             275             280             285
      11022 Gly Glu Lys Asp Glu Pro Leu Ser Val Lys His Gly Arg Pro Met Lys
      11023         290             295             300
      11025 Cys Pro Ser Gln Glu Ser Pro Tyr Leu Phe Ser Tyr Arg Asn Ser Asn
      11026 305             310             315             320
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/092,900

DATE: 11/01/2002
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Input Set : N:\EBONY'S\EP.txt
Output Set: N:\CRF4\11012002\J092900.raw

```
       11175 Glu Thr His Thr Thr Leu Pro Asp Ile Leu Lys Lys Phe Asn Pro Tyr
E--> 11176 105                 110                 115                 120
       11178 Leu Leu Gly Phe Ser Thr Ser Thr Trp Glu Gly Thr Ala Gly Leu Asn
E--> 11179                 125                 130                 135
       11181 Val Ala Ala Glu Gly Ala Arg Ala Arg Asp Met Pro Ala Gln Ala Trp
E--> 11182                 140                 145                 150
       11184 Asp Leu Val Glu Arg Met Lys Asn Ser Pro Gln Asp Ile Asn Leu Glu
E--> 11185                 155                 160                 165
       11187 Lys Asp Trp Lys Leu Val Thr Leu Phe Ile Gly Val Asn Asp Leu Cys
E--> 11188       170                 175                 180
       11190 His Tyr Cys Glu Asn Pro Val Gly Glu Tyr Val Gln His Ile Gln Gln
E--> 11191 185                 190                 195                 200
       11193 Ala Leu Asp Ile Leu Ser Glu Glu Leu Pro Arg Ala Phe Val Asn Val
E--> 11194                 205                 210                 215
       11196 Val Glu Val Met Glu Leu Ala Ser Leu Tyr Gln Gly Gln Gly Gly Lys
E--> 11197                 220                 225                 230
       11199 Cys Ala Met Leu Ala Ala Gln Asn Asn Cys Thr Cys Leu Arg His Ser
E--> 11200                 235                 240                 245
       11202 Gln Ser Ser Leu Glu Lys Gln Glu Leu Lys Lys Val Asn Trp Asn Leu
E--> 11203       250                 255                 260
       11205 Gln His Gly Ile Ser Ser Phe Ser Tyr Trp His Gln Tyr Thr Gln Arg
E--> 11206 265                 270                 275                 280
       11208 Glu Asp Phe Ala Val Val Val Gln Pro Phe Phe Gln Asn Thr Leu Thr
E--> 11209                 285                 290                 295
       11211 Pro Leu Asn Arg Gly Asp Thr Asp Leu Thr Phe Phe Ser Glu Asp Cys
E--> 11212                 300                 305                 310
       11214 Phe His Phe Ser Asp Arg Gly His Ala Glu Met Ala Ile Ala Leu Trp
E--> 11215       315                 320                 325
       11217 Asn Asn Met Leu Glu Pro Val Gly Arg Lys Thr Thr Ser Asn Asn Phe
E--> 11218       330                 335                 340
       11220 Thr His Ser Arg Ala Lys Leu Lys Cys Pro Ser Pro Glu Ser Pro Tyr
E--> 11221 345                 350                 355                 360
       11223 Leu Tyr Thr Leu Arg Asn Ser Arg Leu Leu Pro Asp Gln Ala Glu Glu
E--> 11224                 365                 370                 375
       11226 Ala Pro Glu Val Leu Tyr Trp Ala Val Pro Val Ala Ala Gly Val Gly
E--> 11227                 380                 385                 390
       11229 Leu Val Val Gly Ile Ile Gly Thr Val Val Trp Arg Cys Arg Arg Gly
E--> 11230       395                 400                 405
       11232 Gly Arg Arg Glu Asp Pro Pro Met Ser Leu Arg Thr Val Ala Leu
E--> 11233       410                 415                 420
       13746 <210> SEQ ID NO: 110
       13747 <211> LENGTH: 1115
       13748 <212> TYPE: PRT
       13749 <213> ORGANISM: Homo sapiens
       13751 <400> SEQUENCE: 110
       13752 Met Arg Arg Leu Ser Leu Trp Trp Leu Leu Ser Arg Val Cys Leu Leu
       13753    1                 5                 10                 15
       13755 Leu Pro Pro Pro Cys Ala Leu Val Leu Ala Gly Val Pro Ser Ser Ser
       13756                 20                 25                 30
```

11/1/02

```
       13905 Met Arg Arg Tyr Asn Val Pro Ala Thr Pro Asp Gly Val Glu Tyr Leu
       13906         820                 825             830
       13908 Lys Asn Asp Pro Glu Lys Leu Asp Ala Phe Ile Met Asp Lys Ala Leu
       13909         835                 840             845
       13911 Leu Asp Tyr Glu Val Ser Ile Asp Ala Asp Cys Lys Leu Leu Thr Val
       13912     850                 855             860
       13914 Gly Lys Pro Phe Ala Ile Glu Gly Tyr Gly Ile Gly Leu Pro Pro Asn
       13915 865             .       870             875                 880
       13917 Ser Pro Leu Thr Ala Asn Ile Ser Glu Leu Ile Ser Gln Tyr Lys Ser
       13918         885                 890             895
       13920 His Gly Phe Met Asp Met Leu His Asp Lys Trp Tyr Arg Val Val Pro
       13921         900                 905             910
       13923 Cys Gly Lys Arg Ser Phe Ala Val Thr Glu Thr Leu Gln Met Gly Ile
       13924         915                 920             925
       13926 Lys His Phe Ser Gly Leu Phe Val Leu Leu Cys Ile Gly Phe Gly Leu
       13927     930                 935             940
       13929 Ser Ile Leu Thr Thr Ile Gly Glu His Ile Val Tyr Arg Leu Leu Leu
       13930 945                 950             955                 960
       13932 Pro Arg Ile Lys Asn Lys Ser Lys Leu Gln Tyr Trp Leu His Thr Ser
       13933         965                 970             975
       13935 Gln Arg Leu His Arg Ala Ile Asn Thr Ser Phe Ile Glu Glu Lys Gln
       13936         980                 985             990
       13938 Gln His Phe Lys Thr Lys Arg Val Glu Lys Arg Ser Asn Val Gly Pro
E--> 13939     995                 000             005
       13941 Arg Gln Leu Thr Val Trp Asn Thr Ser Asn Leu Ser His Asp Asn Arg
E--> 13942     010                 015             020
       13944 Arg Lys Tyr Ile Phe Ser Asp Glu Glu Gly Gln Asn Gln Leu Gly Ile
E--> 13945 025                 030             035                 040
       13947 Arg Ile His Gln Asp Ile Pro Leu Pro Pro Arg Arg Arg Glu Leu Pro
E--> 13948         045                 050             055
       13950 Ala Leu Arg Thr Thr Asn Gly Lys Ala Asp Ser Leu Asn Val Ser Arg
E--> 13951         060                 065             070
       13953 Asn Ser Val Met Gln Glu Leu Ser Glu Leu Glu Lys Gln Ile Gln Val
E--> 13954         075                 080,            085
       13956 Ile Arg Gln Glu Leu Gln Leu Ala Val Ser Arg Lys Thr Glu Leu Glu
E--> 13957         090                 095             100
       13959 Glu Tyr Gln Arg Thr Ser Arg Thr Cys Glu Ser
E--> 13960 105                 110             115
       15531 <210> SEQ ID NO: 128
       15532 <211> LENGTH: 1267
       15533 <212> TYPE: PRT
       15534 <213> ORGANISM: Homo sapiens
       15536 <400> SEQUENCE: 128
       15537 Met Met Met Asn Val Pro Gly Gly Gly Ala Ala Ala Val Met Met Thr
       15538     1               5                 10          .       15
       15540 Gly Tyr Asn Asn Gly Arg Cys Pro Arg Asn Ser Leu Tyr Ser Asp Cys
       15541         20                  25              30
       15543 Ile Ile Glu Glu Lys Thr Val Val Leu Gln Lys Lys Asp Asn Glu Gly
       15544         35                  40              45
```

```
      15693 Leu Glu Phe Ala Asn Ser Phe Asp Ile Pro Asp Asp Arg Ala Ala Ser
      15694         835             840             845
      15696 Val Pro Ala Leu Ser Asp Leu Val Lys Gln Lys Lys Ser Asp Thr Pro
      15697     850             855             860
      15699 Gln Ser Pro Ser Leu Asn Ser Ser Gln Pro Thr Asn Ser Ala Asp Ser
      15700 865             870             875             880
      15702 Lys Lys Pro Ala Ser Leu Ser Asn Cys Leu Pro Ala Ser Phe Leu Pro
     ,15703             885             890             895
      15705 Pro Pro Glu Ser Phe Asp Ala Val Ala Asp Ser Gly Ile Glu Glu Val
      15706         900             905             910
      15708 Asp Ser Arg Ser Ser Ser Asp His His Leu Glu Thr Thr Ser Thr Ile
      15709         915             920             925
      15711 Ser Thr Val Ser Ser Ile Ser Thr Leu Ser Ser Glu Gly Gly Glu Asn
      15712     930             935             940
      15714 Val Asp Thr Cys Thr Val Tyr Ala Asp Gly Gln Ala Phe Met Val Asp
      15715 945             950             955             960
      15717 Lys Pro Pro Val Pro Pro Lys Pro Lys Met Lys Pro Ile Ile His Lys
      15718             965             970             975
      15720 Ser Asn Ala Leu Tyr Gln Asp Ala Leu Val Glu Glu Asp Val Asp Ser
      15721         980             985             990
      15723 Phe Val Ile Pro Pro Pro Ala Pro Pro Pro Pro Gly Ser Ala Gln
E--> 15724     995             000             005
      15726 Pro Gly Met Ala Lys Val Leu Gln Pro Arg Thr Ser Lys Leu Trp Gly
E--> 15727     010             015             020
      15729 Asp Val Thr Glu Ile Lys Ser Pro Ile Leu Ser Gly Pro Lys Ala Asn
E--> 15730 025             030             035             040
      15732 Val Ile Ser Glu Leu Asn Ser Ile Leu Gln Gln Met Asn Arg Glu Lys
E--> 15733             045             050             055
      15735 Leu Ala Lys Pro Gly Glu Gly Leu Asp Ser Pro Met Gly Ala Lys Ser
E--> 15736             060             065             070
      15738 Ala Ser Leu Ala Pro Arg Ser Pro Glu Ile Met Ser Thr Ile Ser Gly
E--> 15739     075             080             085
      15741 Thr Arg Ser Thr Thr Val Thr Phe Thr Val Arg Pro Gly Thr Ser Gln
E--> 15742     090             095             100
      15744 Pro Ile Thr Leu Gln Ser Arg Pro Pro Asp Tyr Glu Ser Arg Thr Ser
E--> 15745 105             110             115             120
      15747 Gly Thr Arg Arg Ala Pro Ser Pro Val Val Ser Pro Thr Glu Met Asn
E--> 15748             125             130             135
      15750 Lys Glu Thr Leu Pro Ala Pro Leu Ser Ala Ala Thr Ala Ser Pro Ser
E--> 15751             140             145             150
      15753 Pro Ala Leu Ser Asp Val Phe Ser Leu Pro Ser Gln Pro Pro Ser Gly
E--> 15754     155             160             165
      15756 Asp Leu Phe Gly Leu Asn Pro Ala Gly Arg Ser Arg Ser Pro Ser Pro
E--> 15757     170             175             180
      15759 Ser Ile Leu Gln Gln Pro Ile Ser Asn Lys Pro Phe Thr Thr Lys Pro
E--> 15760 185             190             195             200
      15762 Val His Leu Trp Thr Lys Pro Asp Val Ala Asp Trp Leu Glu Ser Leu
E--> 15763             205             210             215
      15765 Asn Leu Gly Glu His Lys Glu Ala Phe Met Asp Asn Glu Ile Asp Gly
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/092,900

DATE: 11/01/2002
TIME: 12:24:30

Input Set : N:\EBONY'S\EP.txt
Output Set: N:\CRF4\11012002\J092900.raw

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E--> 15766              220                  225                  230
     15768 Ser His Leu Pro Asn Leu Gln Lys Glu Asp Leu Ile Asp Leu Gly Val
E--> 15769              235                  240                  245
     15771 Thr Arg Val Gly His Arg Met Asn Ile Glu Arg Ala Leu Lys Gln Leu
E--> 15772              250                  255                  260
     15774 Leu Asp Arg
E--> 15775 265
     25337 <210> SEQ ID NO: 218
     25338 <211> LENGTH: 2498
     25339 <212> TYPE: PRT
     25340 <213> ORGANISM: Homo sapiens
     25342 <400> SEQUENCE: 218
     25343 Met Val Leu Leu Leu Cys Leu Ser Cys Leu Ile Phe Ser Cys Leu Thr
     25344   1               5                  10                  15
     25346 Phe Ser Trp Leu Lys Ile Trp Gly Lys Met Thr Asp Ser Lys Pro Ile
     25347              20                  25                  30
     25349 Thr Lys Ser Lys Ser Glu Ala Asn Leu Ile Pro Ser Gln Glu Pro Phe
     25350              35                  40                  45
     25352 Pro Ala Ser Asp Asn Ser Gly Glu Thr Pro Gln Arg Asn Gly Glu Gly
     25353        50                  55                  60
     25355 His Thr Leu Pro Lys Thr Pro Ser Gln Ala Glu Pro Ala Ser His Lys
     25356  65                  70                  75                  80
     25358 Gly Pro Lys Asp Ala Gly Arg Arg Arg Asn Ser Leu Pro Pro Ser His
     25359              85                  90                  95
     25361 Gln Lys Pro Pro Arg Asn Pro Leu Ser Ser Ser Asp Ala Ala Pro Ser
     25362             100                 105                 110
     25364 Pro Glu Leu Gln Ala Asn Gly Thr Gly Thr Gln Gly Leu Glu Ala Thr
     25365             115                 120                 125
     25367 Asp Thr Asn Gly Leu Ser Ser Ser Ala Arg Pro Gln Gly Gln Gln Ala
     25368        130                 135                 140
     25370 Gly Ser Pro Ser Lys Glu Asp Lys Lys Gln Ala Asn Ile Lys Arg Gln
     25371 145                 150                 155                 160
     25373 Leu Met Thr Asn Phe Ile Leu Gly Ser Phe Asp Asp Tyr Ser Ser Asp
     25374             165                 170                 175
     25376 Glu Asp Ser Val Ala Gly Ser Ser Arg Glu Ser Thr Arg Lys Gly Ser
     25377             180                 185                 190
     25379 Arg Ala Ser Leu Gly Ala Leu Ser Leu Glu Ala Tyr Leu Thr Thr Arg
     25380             195                 200                 205
     25382 Pro Ser Met Ser Gly Leu His Leu Val Lys Arg Gly Arg Glu His Lys
     25383        210                 215                 220
     25385 Lys Leu Asp Leu His Arg Asp Phe Thr Val Ala Ser Pro Ala Glu Phe
     25386 225                 230                 235                 240
     25388 Val Thr Arg Phe Gly Gly Asp Arg Val Ile Glu Lys Val Leu Ile Ala
     25389             245                 250                 255
     25391 Asn Asn Gly Ile Ala Ala Val Lys Cys Met Arg Ser Ile Arg Arg Trp
     25392             260                 265                 270
     25394 Ala Tyr Glu Met Phe Arg Asn Glu Arg Ala Ile Arg Phe Val Val Met
     25395             275                 280                 285
     25397 Val Thr Pro Glu Asp Leu Lys Ala Asn Ala Glu Tyr Ile Lys Met Ala
```

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     25472 Gln Phe Gly His Cys Phe Ser Trp Gly Glu Asn Arg Glu Glu Ala Ile
     25473     690             695             700
     25475 Ser Asn Met Val Val Ala Leu Lys Glu Leu Ser Ile Arg Gly Asp Phe
     25476 705             710             715             720
     25478 Arg Thr Thr Val Glu Tyr Leu Ile Asn Leu Leu Glu Thr Glu Ser Phe
     25479             725             730             735
     25481 Gln Asn Asn Asp Ile Asp Thr Gly Trp Leu Asp Tyr Leu Ile Ala Glu
     25482         740             745             750
     25484 Lys Val Gln Ala Glu Lys Pro Asp Ile Met Leu Gly Val Val Cys Gly
     25485         755             760             765
     25487 Ala Leu Asn Val Ala Asp Ala Met Phe Arg Thr Cys Met Thr Asp Phe
     25488     770             775             780
     25490 Leu His Ser Leu Glu Arg Gly Gln Val Leu Pro Ala Asp Ser Leu Leu
     25491 785             790             795             800
     25493 Asn Leu Val Asp Val Glu Leu Ile Tyr Gly Gly Val Lys Tyr Ile Leu
     25494             805             810             815
     25496 Lys Val Ala Arg Gln Ser Leu Thr Met Phe Val Leu Ile Met Asn Gly
     25497         820             825             830
     25499 Cys His Ile Glu Ile Asp Ala His Arg Leu Asn Asp Gly Gly Leu Leu
     25500         835             840             845
     25502 Leu Ser Tyr Asn Gly Asn Ser Tyr Thr Thr Tyr Met Lys Glu Glu Val
     25503     850             855             860
     25505 Asp Ser Tyr Arg Ile Thr Ile Gly Asn Lys Thr Cys Val Phe Glu Lys
     25506 865             870             875             880
     25508 Glu Asn Asp Pro Thr Val Leu Arg Ser Pro Ser Ala Gly Lys Leu Thr
     25509             885             890             895
     25511 Gln Tyr Thr Val Glu Asp Gly Gly His Val Glu Ala Gly Ser Ser Tyr
     25512             900             905             910
     25514 Ala Glu Met Glu Val Met Lys Met Ile Met Thr Leu Asn Val Gln Glu
     25515         915             920             925
     25517 Arg Gly Arg Val Lys Tyr Ile Lys Arg Pro Gly Ala Val Leu Glu Ala
     25518     930             935             940
     25520 Gly Cys Val Val Ala Arg Leu Glu Leu Asp Asp Pro Ser Lys Val His
     25521 945             950             955             960
     25523 Pro Ala Glu Pro Phe Thr Gly Glu Leu Pro Ala Gln Gln Thr Leu Pro
     25524             965             970             975
     25526 Ile Leu Gly Glu Lys Leu His Gln Val Phe His Ser Val Leu Glu Asn
     25527             980             985             990
     25529 Leu Thr Asn Val Met Ser Gly Phe Cys Leu Pro Glu Pro Val Phe Ser
E--> 25530         995             000             005
     25532 Ile Lys Leu Lys Glu Trp Val Gln Lys Leu Met Met Thr Leu Arg His
E--> 25533     010             015             020
     25535 Pro Ser Leu Pro Leu Leu Glu Leu Gln Glu Ile Met Thr Ser Val Ala
E--> 25536 025             030             035             040
     25538 Gly Arg Ile Pro Ala Pro Val Glu Lys Ser Val Arg Arg Val Met Ala
E--> 25539         045             050             055
     25541 Gln Tyr Ala Ser Asn Ile Thr Ser Val Leu Cys Gln Phe Pro Ser Gln
E--> 25542         060             065             070
     25544 Gln Ile Ala Thr Ile Leu Asp Cys His Ala Ala Thr Leu Gln Arg Lys
```

Input Set : N:\EBONY'S\EP.txt
Output Set: N:\CRF4\11012002\J092900.raw

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      25766 Glu Met Tyr Ala Asp Lys Glu Ser Arg Gly Gly Val Leu Glu Pro Glu
E--> 25767         260             265             270
      25769 Gly Thr Val Glu Ile Lys Phe Arg Lys Lys Asp Leu Ile Lys Ser Met
E--> 25770         275             280             285
      25772 Arg Arg Ile Asp Pro Ala Tyr Lys Lys Leu Met Glu Gln Leu Gly Glu
E--> 25773         290             295             300
      25775 Pro Asp Leu Ser Asp Lys Asp Arg Lys Asp Leu Glu Gly Arg Leu Lys
E--> 25776 305             310             315             320
      25778 Ala Arg Glu Asp Leu Leu Leu Pro Ile Tyr His Gln Val Ala Val Gln
E--> 25779         325             330             335
      25781 Phe Ala Asp Phe His Asp Thr Pro Gly Arg Met Leu Glu Lys Gly Val
E--> 25782         340             345             350
      25784 Ile Ser Asp Ile Leu Glu Trp Lys Thr Ala Arg Thr Phe Leu Tyr Trp
E--> 25785         355             360             365
      25787 Arg Leu Arg Arg Leu Leu Leu Glu Asp Gln Val Lys Gln Glu Ile Leu
E--> 25788         370             375             380
      25790 Gln Ala Ser Gly Glu Leu Ser His Val His Ile Gln Ser Met Leu Arg
E--> 25791 385             390             395             400
      25793 Arg Trp Phe Val Glu Thr Glu Gly Ala Val Lys Ala Tyr Leu Trp Asp
E--> 25794         405             410             415
      25796 Asn Asn Gln Val Val Val Gln Trp Leu Glu Gln His Trp Gln Ala Gly
E--> 25797         420             425             430
      25799 Asp Gly Pro Arg Ser Thr Ile Arg Glu Asn Ile Thr Tyr Leu Lys His
E--> 25800         435             440             445
      25802 Asp Ser Val Leu Lys Thr Ile Arg Gly Leu Val Glu Glu Asn Pro Glu
E--> 25803         450             455             460
      25805 Val Ala Val Asp Cys Val Ile Tyr Leu Ser Gln His Ile Ser Pro Ala
E--> 25806 465             470             475             480
      25808 Glu Arg Ala Gln Val Val His Leu Leu Ser Thr Met Asp Ser Pro Ala
E--> 25809         485             490             495
      25811 Ser Thr
      26588 <210> SEQ ID NO: 224
      26589 <211> LENGTH: 1390
      26590 <212> TYPE: PRT
      26591 <213> ORGANISM: Homo sapiens
      26593 <400> SEQUENCE: 224
      26594 Met Ser Ala Glu Ser Gly Pro Gly Thr Arg Leu Arg Asn Leu Pro Val
      26595   1           5             10             15
      26597 Met Gly Asp Gly Leu Glu Thr Ser Gln Met Ser Thr Thr Gln Ala Gln
      26598         20             25             30
      26600 Ala Gln Pro Gln Pro Ala Asn Ala Ala Ser Thr Asn Pro Pro Pro Pro
      26601         35             40             45
      26603 Glu Thr Ser Asn Pro Asn Lys Pro Lys Arg Gln Thr Asn Gln Leu Gln
      26604         50             55             60
      26606 Tyr Leu Leu Arg Val Val Leu Lys Thr Leu Trp Lys His Gln Phe Ala
      26607 65             70             75             80
      26609 Trp Pro Phe Gln Gln Pro Val Asp Ala Val Lys Leu Asn Leu Pro Asp
      26610         85             90             95
      26612 Tyr Tyr Lys Ile Ile Lys Thr Pro Met Asp Met Gly Thr Ile Lys Lys
```

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         26760                     885                 890                 895
         26762 Thr Pro Leu Leu Pro Gln Pro Pro Met Ala Gln Pro Pro Gln Val Leu
         26763             900                 905                 910
         26765 Leu Glu Asp Glu Glu Pro Pro Ala Pro Pro Leu Thr Ser Met Gln Met
         26766         915                 920                 925
         26768 Gln Leu Tyr Leu Gln Gln Leu Gln Lys Val Gln Pro Pro Thr Pro Leu
         26769     930                 935                 940
         26771 Leu Pro Ser Val Lys Val Gln Ser Gln Pro Pro Pro Pro Leu Pro Pro
         26772 945                 950                 955                 960
         26774 Pro Pro His Pro Ser Val Gln Gln Gln Leu Gln Gln Gln Pro Pro Pro
         26775             965                 970                 975
         26777 Pro Pro Pro Pro Gln Pro Gln Pro Pro Pro Gln Gln Gln His Gln Pro
         26778         980                 985                 990
         26780 Pro Pro Arg Pro Val His Leu Gln Pro Met Gln Phe Ser Thr His Ile
E--> 26781         995                 000                 005
         26783 Gln Gln Pro Pro Pro Pro Gln Gly Gln Gln Pro Pro His Pro Pro Pro
E--> 26784         010                 015                 020
         26786 Gly Gln Gln Pro Pro Pro Pro Gln Pro Ala Lys Pro Gln Gln Val Ile
E--> 26787 025                 030                 035                 040
         26789 Gln His His His Ser Pro Arg His His Lys Ser Asp Pro Tyr Ser Thr
E--> 26790             045                 050                 055
         26792 Gly His Leu Arg Glu Ala Pro Ser Pro Leu Met Ile His Ser Pro Gln
E--> 26793         060                 065                 070
         26795 Met Ser Gln Phe Gln Ser Leu Thr His Gln Ser Pro Pro Gln Gln Asn
E--> 26796         075                 080                 085
         26798 Val Gln Pro Lys Lys Gln Val Thr Gly Arg Ala Gly Pro Ser Pro Val
E--> 26799         090                 095                 100
         26801 Gly Gln Gly Arg Gly Cys Leu Pro Thr Ser Pro Ala Ala Val Pro Val
E--> 26802 105                 110                 115                 120
         26804 Pro Ser Gln Glu Leu Arg Ala Ala Ser Val Val Gln Pro Gln Pro Leu
E--> 26805             125                 130                 135
         26807 Val Val Val Lys Glu Glu Lys Ile His Ser Pro Ile Ile Arg Ser Glu
E--> 26808             140                 145                 150
         26810 Pro Phe Ser Pro Ser Leu Arg Pro Glu Pro Pro Lys His Pro Glu Ser
E--> 26811         155                 160                 165
         26813 Ile Lys Ala Pro Val Tyr Val Pro Gly Pro Glu Met Lys Pro Val Asp
E--> 26814     170                 175                 180
         26816 Val Gly Arg Pro Val Ile Arg Pro Pro Glu Gln Asn Ala Pro Pro Pro
E--> 26817 185                 190                 195                 200
         26819 Gly Ala Pro Asp Lys Asp Lys Gln Lys Gln Glu Pro Lys Thr Pro Val
E--> 26820             205                 210                 215
         26822 Ala Pro Lys Lys Asp Leu Lys Ile Lys Asn Met Gly Ser Trp Ala Ser
E--> 26823         220                 225                 230
         26825 Leu Val Gln Lys His Pro Thr Thr Pro Ser Ser Thr Ala Lys Ser Ser
E--> 26826         235                 240                 245
         26828 Ser Asp Ser Phe Glu Gln Phe Arg Arg Ala Ala Arg Glu Lys Glu Glu
E--> 26829         250                 255                 260
         26831 Arg Glu Lys Ala Leu Lys Ala Gln Ala Glu His Ala Glu Lys Glu Lys
E--> 26832 265                 270                 275                 280
```

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        26834 Glu Arg Leu Arg Gln Glu Arg Met Arg Ser Arg Glu Asp Glu Asp Ala
E--> 26835             285                 290                 295
        26837 Leu Glu Gln Ala Arg Arg Ala His Glu Glu Ala Arg Arg Arg Gln Glu
E--> 26838             300                 305                 310
        26840 Gln Gln Gln Gln Gln Arg Gln Glu Gln Gln Gln Gln Gln Gln Gln Gln
E--> 26841             315                 320                 325
        26843 Ala Ala Ala Val Ala Ala Ala Ala Thr Pro Gln Ala Gln Ser Ser Gln
E--> 26844        330                 335                 340
        26846 Pro Gln Ser Met Leu Asp Gln Gln Arg Glu Leu Ala Arg Lys Arg Glu
E--> 26847 345                 350                 355                 360
        26849 Gln Glu Arg Arg Arg Arg Glu Ala Met Ala Ala Thr Ile Asp Met Asn
E--> 26850             365                 370                 375
        26852 Phe Gln Ser Asp Leu Leu Ser Ile Phe Glu Glu Asn Leu Phe
E--> 26853             380                 385                 390
        27616 <210> SEQ ID NO: 230
        27617 <211> LENGTH: 1013
        27618 <212> TYPE: PRT
        27619 <213> ORGANISM: Homo sapiens
        27621 <400> SEQUENCE: 230
        27622 Met Glu Asp Glu Glu Gly Pro Glu Tyr Gly Lys Pro Asp Phe Val Leu
        27623    1                 5                 10                  15
        27625 Leu Asp Gln Val Thr Met Glu Asp Phe Met Arg Asn Leu Gln Leu Arg
        27626             20                  25                  30
        27628 Phe Glu Lys Gly Arg Ile Tyr Thr Tyr Ile Gly Glu Val Leu Val Ser
        27629             35                  40                  45
        27631 Val Asn Pro Tyr Gln Glu Leu Pro Leu Tyr Gly Pro Glu Ala Ile Ala
        27632        50                  55                  60
        27634 Arg Tyr Gln Gly Arg Glu Leu Tyr Glu Arg Pro Pro His Leu Tyr Ala
        27635    65                  70                  75                  80
        27637 Val Ala Asn Ala Ala Tyr Lys Ala Met Lys His Arg Ser Arg Asp Thr
        27638                 85                  90                  95
        27640 Cys Ile Val Ile Ser Gly Glu Ser Gly Ala Gly Lys Thr Glu Ala Ser
        27641             100                 105                 110
        27643 Lys His Ile Met Gln Tyr Ile Ala Ala Val Thr Asn Pro Ser Gln Arg
        27644             115                 120                 125
        27646 Ala Glu Val Glu Arg Val Lys Asp Val Leu Leu Lys Ser Thr Cys Val
        27647        130                 135                 140
        27649 Leu Glu Ala Phe Gly Asn Ala Arg Thr Asn Arg Asn His Asn Ser Ser
        27650 145                 150                 155                 160
        27652 Arg Phe Gly Lys Tyr Met Asp Ile Asn Phe Asp Phe Lys Gly Asp Pro
        27653             165                 170                 175
        27655 Ile Gly Gly His Ile His Ser Tyr Leu Leu Glu Lys Ser Arg Val Leu
        27656             180                 185                 190
        27658 Lys Gln His Val Gly Glu Arg Asn Phe His Ala Phe Tyr Gln Leu Leu
        27659         195                 200                 205
        27661 Arg Gly Ser Glu Asp Lys Gln Leu His Glu Leu His Leu Glu Arg Asn
        27662        210                 215                 220
        27664 Pro Ala Val Tyr Asn Phe Thr His Gln Gly Ala Gly Leu Asn Met Thr
        27665 225                 230                 235                 240
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28647 <210> SEQ ID NO: 240
28648 <211> LENGTH: 1301
28649 <212> TYPE: PRT
28650 <213> ORGANISM: Homo sapiens
28652 <400> SEQUENCE: 240
28653 Met Asn Asn Tyr Val Leu Asn Asp Glu Ile Gly Gln Gly Ala Phe Ser
28654  1               5                  10                  15
28656 Thr Ile Tyr Lys Gly Arg Tyr Arg Thr Thr Thr Glu Phe Tyr Ala Ile
28657            20                  25                  30
28659 Ala Ser Ile Asp Lys Lys Arg Arg Glu Arg Val Val Asn Cys Val Gln
28660            35                  40                  45
28662 Leu Leu Arg Ser Met His His Ser Asn Val Ile Glu Phe His Asn Trp
28663         50                  55                  60
28665 Tyr Glu Thr Asn Asn His Leu Trp Ile Ile Thr Glu Tyr Cys Thr Gly
28666  65                  70                  75                  80
28668 Gly Asp Met Ser Thr Ile Leu Arg Ser Asn Ile Asn Leu Thr Thr Gln
28669                 85                  90                  95
28671 Ala Val Gln Ala Phe Gly Arg Asp Val Ala Met Gly Leu Met Tyr Ile
28672            100                 105                 110
28674 His Ser Lys Gly Val Val Tyr Asn Asp Leu Gln Thr Arg Asn Leu Leu
28675            115                 120                 125
28677 Met Asp Ser Ala Ala Met Leu Arg Phe His Asp Phe Ser Leu Ala Cys
28678         130                 135                 140
28680 Leu Phe Gln Asp Ala Ala Thr Arg Pro Leu Val Gly Thr Pro Leu Tyr
28681 145                 150                 155                 160
28683 Met Ala Pro Glu Leu Phe Met Ala Asp Arg Pro Leu Tyr Ser Met Ala
28684                 165                 170                 175
28686 Ser Asp Leu Trp Ser Phe Gly Cys Val Leu His Glu Leu Ala Thr Gly
28687            180                 185                 190
28689 Lys Pro Pro Phe Ala Ala Ser Asp Leu Glu Thr Leu Leu Gly Asp Ile
28690            195                 200                 205
28692 Leu Thr Ser Pro Thr Pro Ala Val Pro Gly Ala Pro Glu Ser Phe Gln
28693 210                 215                 220
28695 Thr Leu Leu Cys Gly Leu Leu Glu Lys Asp Pro Leu Lys Arg Tyr Ala
28696 225                 230                 235                 240
28698 Trp Val Asp Val Val Arg Ser Glu Phe Trp Asp Glu Pro Leu Pro Leu
28699            245                 250                 255
28701 Pro Ser Asn Gly Phe Pro Ser Gln Val Ala Trp Glu Asp Tyr Lys Arg
28702            260                 265                 270
28704 Ser Arg Ser Gly Arg Gly Ala Ser Gln Tyr Asn Trp Thr Asp Ser Asp
28705            275                 280                 285
28707 Val Arg Val Ala Val Ala His Ala Val Gly Ala Ala Lys Ser Asn Ala
28708            290                 295                 300
28710 Ser Thr His Asn Val Glu Glu Arg Glu Arg Ala Ala Ala Thr Leu Asn
28711 305                 310                 315                 320
28713 Val Ala Lys Glu Leu Asp Phe Thr Ala Ser Ala Ala Met Leu Leu Glu
28714            325                 330                 335
28716 Arg Leu Pro Glu Arg Thr Gln Glu Arg Ala Ala His Ala Thr Gly His
28717            340                 345                 350
```

```
      28792                740                745                750
      28794 Arg Ser Arg Val Ser Asn Arg Phe Met Arg Tyr Phe Asn Tyr Leu Ala
      28795                755                760                765
      28797 Phe Pro Glu Met Ser Asp Met Ser Lys Arg Thr Ile Leu Gln Ala Ile
      28798                770                775                780
      28800 Leu Val Gly Gly Leu Ala Gln Ser Gly Leu Ala Asp Arg Leu Ala Asn
      28801 785                790                795                800
      28803 Val Ala Ser Ala Val Val Asp Ser Thr Leu Arg Val Phe Arg Lys Cys
      28804                805                810                815
      28806 Thr Gln Val Phe Leu Pro Thr Pro Ala His Val His Tyr Ser Phe Asn
      28807                820                825                830
      28809 Met Arg Asp Val Met Arg Val Phe Pro Leu Leu Tyr Thr Ala Asp Lys
      28810                835                840                845
      28812 Ser Val Leu Gln Ser Glu Glu Ser Ile Val Arg Leu Trp Met His Glu
      28813          850                855                860
      28815 Met Gln Arg Val Phe Tyr Asp Arg Leu Val Asp Ala Thr Asp Lys Gly
      28816 865                870                875                880
      28818 Leu Phe Ile Glu Tyr Leu Asn Ala Glu Leu Pro Ser Met Gly Val Asp
      28819                885                890                895
      28821 Lys Ser Tyr Asn Glu Val Val Lys Ala Asp Arg Leu Ile Phe Ala Asp
      28822                900                905                910
      28824 Val Leu Ser Asp Lys Gly Val Tyr Glu Gln Ile Thr Asp Met Asn Ala
      28825          915                920                925
      28827 Leu Thr Thr Arg Met Asn Glu Leu Leu Glu Ala Tyr Asn Asp Glu Asn
      28828          930                935                940
      28830 Glu Val Lys Met Asn Leu Val Leu Phe Leu Asp Ala Ile Glu His Val
      28831 945                950                955                960
      28833 Cys Arg Ile Ser Arg Val Leu Arg Leu Pro Asn Gly His Cys Leu Leu
      28834                965                970                975
      28836 Leu Gly Val Gly Gly Ser Gly Arg Lys Ser Leu Thr Arg Leu Ala Cys
      28837                980                985                990
      28839 Ser Leu Ile Ala Glu Met Glu Val Phe Thr Ile Glu Leu Ser Lys Asn
E--> 28840                995                000                005
      28842 Phe Gly Val Lys Glu Trp His Glu Ser Leu Ala Lys Leu Leu Leu Glu
E--> 28843          010                015                020
      28845 Cys Gly Lys Asp Glu Lys Lys Arg Thr Phe Leu Phe Ala Asp Thr Gln
E--> 28846 025                030                035                040
      28848 Leu Ala His Pro Thr Phe Leu Glu Asp Val Ala Gly Leu Leu Thr Ser
E--> 28849                045                050                055
      28851 Gly Asp Val Pro Asn Leu Phe Glu Asp Gln Asp Ile Glu Leu Ile Asn
E--> 28852                060                065                070
      28854 Asp Lys Phe Arg Gly Val Cys Leu Ser Glu Asn Leu Pro Thr Thr Lys
E--> 28855          075                080                085
      28857 Val Ser Val Tyr Ala Arg Phe Val Lys Glu Ala Arg Ala Asn Leu His
E--> 28858          090                095                100
      28860 Leu Val Leu Ala Phe Ser Pro Ile Gly Glu Ala Phe Arg Ser Arg Leu
E--> 28861 105                110                115                120
      28863 Arg Met Phe Pro Ser Leu Ile Ala Cys Cys Thr Ile Asp Trp Phe Ala
E--> 28864                125                130                135
```

```
      28866 Glu Trp Pro Ser Glu Ala Leu Leu Ser Val Ala Ala Val Gln Leu Asn
E--> 28867         140             145             150
      28869 Ala Gly Asp Val Thr Asp Val Met Gly Ala Ala Ser His Ala Asp Leu
E--> 28870         155             160             165
      28872 Pro Gly Cys Phe Gln Ala Val His Arg Ala Ala Ala Glu Val Thr Glu
E--> 28873         170             175             180
      28875 Arg Phe Phe Thr Glu Thr Arg Arg Arg Ser Tyr Val Thr Pro Thr Ser
E--> 28876 185             190             195             200
      28878 Tyr Leu Ser Leu Leu Ser Asn Phe Lys Val Met Ala Ala Ala Lys Arg
E--> 28879         205             210             215
      28881 Arg Phe Val Arg Glu Gln Arg Gly Arg Leu Glu Lys Gly Leu Glu Lys
E--> 28882         220             225             230
      28884 Leu Arg His Thr Glu Val Gln Val Ala Glu Leu Glu Ala Gln Leu Lys
E--> 28885         235             240             245
      28887 Ala Gln Gln Pro Val Leu Val Gln Lys Lys Ala Glu Ile Gln Ser Met
E--> 28888         250             255             260
      28890 Met Glu Arg Leu Thr Val Asp Arg Lys Glu Ala Ala Val Lys Glu Ala
E--> 28891 265             270             275             280
      28893 Asp Ala Arg Arg Glu Ala Gln Leu Pro Gly Gly Arg Ala Ala Tyr Gly
E--> 28894         285             290             295
      28896 Gly Glu Asp Asp Glu
E--> 28897         300
      31389 <210> SEQ ID NO: 264
      31390 <211> LENGTH: 1943
      31391 <212> TYPE: PRT
      31392 <213> ORGANISM: Homo sapiens
      31394 <400> SEQUENCE: 264
      31395 Met Pro Ile Arg Ile Thr Trp Arg Lys Asp Gly Gln Val Ile Ile Ser
      31396   1             5             10             15
      31398 Gly Ser Gly Val Thr Ile Glu Ser Lys Glu Phe Met Ser Ser Leu Gln
      31399         20             25             30
      31401 Ile Ser Ser Val Ser Leu Lys His Asn Gly Asn Tyr Thr Cys Ile Ala
      31402         35             40             45
      31404 Ser Asn Ala Ala Ala Thr Val Ser Ile Val Ser Pro Glu His Arg Phe
      31405         50             55             60
      31407 Phe Ile Thr Tyr His Gly Gly Leu Tyr Ile Ser Asp Val Gln Lys Glu
      31408 65             70             75             80
      31410 Asp Ala Leu Ser Thr Tyr Arg Cys Ile Thr Lys His Lys Tyr Ser Gly
      31411         85             90             95
      31413 Glu Thr Arg Gln Ser Asn Gly Ala Arg Leu Ser Val Thr Asp Pro Ala
      31414         100             105             110
      31416 Glu Ser Ile Pro Thr Ile Leu Asp Gly Phe His Ser Gln Glu Val Trp
      31417         115             120             125
      31419 Ala Gly His Thr Val Glu Leu Pro Cys Thr Ala Ser Gly Tyr Pro Ile
      31420         130             135             140
      31422 Pro Ala Ile Arg Trp Leu Lys Asp Gly Arg Pro Leu Pro Ala Asp Ser
      31423 145             150             155             160
      31425 Arg Trp Thr Lys Arg Ile Thr Gly Leu Thr Ile Ser Asp Leu Arg Thr
      31426         165             170             175
```

RAW SEQUENCE LISTING   DATE: 11/01/2002
PATENT APPLICATION: US/10/092,900   TIME: 12:24:31

Input Set : N:\EBONY'S\EP.txt
Output Set: N:\CRF4\11012002\J092900.raw

```
        31575 Arg Ala Gly Thr Gly Pro Ser Ser Ser Glu Ile Asn Ala Thr Thr Leu
        31576             965             970             975
        31578 Glu Asp Val Pro Ser Gln Pro Pro Glu Asn Val Arg Ala Leu Ser Ile
        31579             980             985             990
        31581 Thr Ser Asp Val Ala Val Ile Ser Trp Ser Glu Pro Pro Arg Ser Thr
E-->    31582     995             000             005
        31584 Leu Asn Gly Val Leu Lys Gly Tyr Arg Val Ile Phe Trp Ser Leu Tyr
E-->    31585     010             015             020
        31587 Val Asp Gly Glu Trp Gly Glu Met Gln Asn Ile Thr Thr Thr Arg Glu
E-->    31588 025             030             035             040
        31590 Arg Val Glu Leu Arg Gly Met Glu Lys Phe Thr Asn Tyr Ser Val Gln
E-->    31591             045             050             055
        31593 Val Leu Ala Tyr Thr Gln Ala Gly Asp Gly Val Arg Ser Ser Val Leu
·E-->   31594             060             065             070
        31596 Tyr Ile Gln Thr Lys Glu Asp Val Pro Gly Pro Pro Ala Gly Ile Lys
E-->    31597         075             080             085
        31599 Ala Val Pro Ser Ser Ala Ser Ser Val Val Val Ser Trp Leu Pro Pro
E-->    31600     090             095             100
        31602 Thr Lys Pro Asn Gly Val Ile Arg Lys Tyr Thr Ile Phe Cys Ser Ser
E-->    31603 105             110             115             120
        31605 Pro Gly Ser Gly Gln Pro Ala Pro Ser Glu Tyr Glu Thr Ser Pro Glu
E-->    31606             125             130             135
        31608 Gln Leu Phe Tyr Arg Ile Ala His Leu Asn Arg Gly Gln Gln Tyr Leu
E-->    31609             140             145             150
        31611 Leu Trp Val Ala Ala Val Thr Ser Ala Gly Arg Gly Asn Ser Ser Glu
E-->    31612     155             160             165
        31614 Lys Val Thr Ile Glu Pro Ala Gly Lys Ala Pro Ala Lys Ile Ile Ser
E-->    31615     170             175             180
        31617 Phe Gly Gly Thr Val Thr Thr Pro Trp Met Lys Asp Val Arg Leu Pro
E-->    31618 185             190             195             200
        31620 Cys Asn Ser Val Gly Asp Pro Ala Pro Ala Val Lys Trp Thr Lys Asp
E-->    31621             205             210             215
        31623 Ser Glu Asp Ser Ala Ile Pro Val Ser Met Asp Gly His Arg Leu Ile
E-->    31624             220             225             230
        31626 His Thr Asn Gly Thr Leu Leu Leu Arg Ala Val Lys Ala Glu Asp Ser
E-->    31627             235             240             245
        31629 Gly Tyr Tyr Thr Cys Thr Ala Thr Asn Thr Gly Gly Phe Asp Thr Ile
E-->    31630     250             255             260
        31632 Ile Val Asn Leu Leu Val Gln Val Pro Pro Asp Gln Pro Arg Leu Thr
E-->    31633 265             270             275             280
        31635 Val Ser Lys Thr Ser Ala Ser Ser Ile Thr Leu Thr Trp Ile Pro Gly
E-->    31636             285             290             295
        31638 Asp Asn Gly Gly Ser Ser Ile Arg Gly Phe Val Leu Gln Tyr Ser Val
E-->    31639             300             305             310
        31641 Asp Asn Ser Glu Glu Trp Lys Asp Val Phe Ile Ser Ser Ser Glu Arg
E-->    31642             315             320             325
        31644 Ser Phe Lys Leu Asp Ser Leu Lys Cys Gly Thr Trp Tyr Lys Val Lys
E-->    31645     330             335             340
        31647 Leu Ala Ala Lys Asn Ser Val Gly Ser Gly Arg Ile Ser Glu Ile Ile
```

```
      31722 Met Thr Ser Met Ser Thr Pro Ser Glu Pro Gly Ile Cys Arg Phe Thr
E--> 31723 745             750             755             760
      31725 Ala Ser Pro Pro Lys Pro Gln Asp Ala Asp Arg Gly Lys Asn Val Ala
E--> 31726             765             770             775
      31728 Val Pro Ile Pro His Arg Ala Asn Lys Ser Asp Tyr Cys Asn Leu Pro
E--> 31729             780             785             790
      31731 Leu Tyr Ala Lys Ser Glu Ala Phe Phe Arg Lys Ala Asp Gly Arg Glu
E--> 31732         795             800             805
      31734 Pro Cys Pro Val Val Pro Pro Arg Glu Ala Ser Ile Arg Asn Leu Ala
E--> 31735         810             815             820
      31737 Arg Thr Tyr His Thr Gln Ala Arg His Leu Thr Leu Asp Pro Ala Ser
E--> 31738 825             830             835             840
      31740 Lys Ser Leu Gly Leu Pro His Pro Gly Ala Pro Ala Ala Ala Ser Thr
E--> 31741             845             850             855
      31743 Ala Thr Leu Pro Gln Arg Thr Leu Ala Met Pro Ala Pro Pro Ala Gly
E--> 31744             860             865             870
      31746 Thr Ala Pro Pro Ala Pro Gly Pro Thr Pro Ala Glu Pro Pro Thr Ala
E--> 31747         875             880             885
      31749 Pro Ser Ala Ala Pro Pro Ala Pro Ser Thr Glu Pro Pro Arg Ala Gly
E--> 31750         890             895             900
      31752 Gly Pro His Thr Lys Met Gly Gly Ser Arg Asp Ser Leu Leu Glu Met
E--> 31753 905             910             915             920
      31755 Ser Thr Ser Gly Val Gly Arg Ser Gln Lys Gln Gly Ala Gly Ala Tyr
E--> 31756             925             930             935
      31758 Ser Lys Ser Tyr Thr Leu Val
E--> 31759             940
      32274 <210> SEQ ID NO: 266
      32275 <211> LENGTH: 1908
      32276 <212> TYPE: PRT
      32277 <213> ORGANISM: Homo sapiens
      32279 <400> SEQUENCE: 266
      32280 Met Pro Ile Arg Ile Thr Trp Arg Lys Asp Gly Gln Val Ile Ile Ser
      32281   1             5             10             15
      32283 Gly Ser Gly Val Thr Ile Glu Ser Lys Glu Phe Met Ser Ser Leu Gln
      32284             20             25             30
      32286 Ile Ser Ser Val Ser Leu Lys His Asn Gly Asn Tyr Thr Cys Ile Ala
      32287         35             40             45
      32289 Ser Asn Ala Ala Ala Thr Val Ser Ile Val Ser Pro Glu His Arg Phe
      32290         50             55             60
      32292 Phe Ile Thr Tyr His Gly Gly Leu Tyr Ile Ser Asp Val Gln Lys Glu
      32293 65             70             75             80
      32295 Asp Ala Leu Ser Thr Tyr Arg Cys Ile Thr Lys His Lys Tyr Ser Gly
      32296             85             90             95
      32298 Glu Thr Arg Gln Ser Asn Gly Ala Arg Leu Ser Val Thr Asp Pro Ala
      32299             100             105             110
      32301 Glu Ser Ile Pro Thr Ile Leu Asp Gly Phe His Ser Gln Glu Val Trp
      32302         115             120             125
      32304 Ala Gly His Thr Val Glu Leu Pro Cys Thr Ala Ser Gly Tyr Pro Ile
      32305         130             135             140
```

```
      32454 Ser Glu Val Tyr Thr Leu Asp Asn Leu Lys Lys Phe Ala Gln Tyr Gly
      32455     930             935             940
      32457 Val Val Val Gln Ala Phe Asn Arg Ala Gly Thr Gly Pro Ser Ser Ser
      32458 945             950             955             960
      32460 Glu Ile Asn Ala Thr Thr Leu Glu Asp Val Pro Ser Gln Pro Pro Glu
      32461             965             970             975
      32463 Asn Val Arg Ala Leu Ser Ile Thr Ser Asp Val Ala Val Ile Ser Trp
      32464             980             985             990
      32466 Ser Glu Pro Pro Arg Ser Thr Leu Asn Gly Val Leu Lys Gly Tyr Arg
E--> 32467     995             000             005
      32469 Val Ile Phe Trp Ser Leu Tyr Val Asp Gly Glu Trp Gly Glu Met Gln
E--> 32470     010             015             020
      32472 Asn Ile Thr Thr Thr Arg Glu Arg Val Glu Leu Arg Gly Met Glu Lys
E--> 32473 025             030             035             040
      32475 Phe Thr Asn Tyr Ser Val Gln Val Leu Ala Tyr Thr Gln Ala Gly Asp
E--> 32476             045             050             055
      32478 Gly Val Arg Ser Ser Val Leu Tyr Ile Gln Thr Lys Glu Asp Val Pro
E--> 32479             060             065             070
      32481 Gly Pro Pro Ala Gly Ile Lys Ala Val Pro Ser Ser Ala Ser Ser Val
E--> 32482     075             080             085
      32484 Val Val Ser Trp Leu Pro Pro Thr Lys Pro Asn Gly Val Ile Arg Lys
E--> 32485     090             095             100
      32487 Tyr Thr Ile Phe Cys Ser Ser Pro Ala Pro Gln Ala Pro Ser Glu Tyr
E--> 32488 105             110             115             120
      32490 Glu Thr Ser Pro Glu Gln Leu Phe Tyr Arg Ile Ala His Leu Asn Arg
E--> 32491             125             130             135
      32493 Gly Gln Gln Tyr Leu Leu Trp Val Ala Ala Val Thr Ser Ala Gly Arg
E--> 32494             140             145             150
      32496 Gly Asn Ser Ser Glu Lys Val Thr Ile Glu Pro Ala Gly Lys Ala Pro
E--> 32497     155             160             165
      32499 Ala Lys Ile Ile Ser Phe Gly Gly Thr Val Thr Thr Pro Trp Met Lys
E--> 32500     170             175             180
      32502 Asp Val Arg Leu Pro Cys Asn Ser Val Gly Asp Pro Ala Pro Ala Val
E--> 32503 185             190             195             200
      32505 Lys Trp Thr Lys Asp Ser Glu Asp Ser Ala Ile Pro Val Ser Met Asp
E--> 32506     205             210             215
      32508 Gly His Arg Leu Ile His Thr Asn Gly Thr Leu Leu Leu Arg Ala Val
E--> 32509     220             225             230
      32511 Lys Ala Glu Asp Ser Gly Tyr Tyr Thr Cys Thr Ala Thr Asn Thr Gly
E--> 32512     235             240             245
      32514 Gly Phe Asp Thr Ile Ile Val Asn Leu Leu Val Gln Val Pro Pro Asp
E--> 32515     250             255             260
      32517 Gln Pro Arg Leu Thr Val Ser Lys Thr Ser Ala Ser Ser Ile Thr Leu
E--> 32518 265             270             275             280
      32520 Thr Trp Ile Pro Gly Asp Asn Gly Gly Ser Ser Ile Arg Gly Phe Val
E--> 32521     285             290             295
      32523 Leu Gln Tyr Ser Val Asp Asn Ser Glu Glu Trp Lys Asp Val Phe Ile
E--> 32524             300             305             310
      32526 Ser Ser Ser Glu Arg Ser Phe Lys Leu Asp Ser Leu Lys Cys Gly Thr
```

```
                RAW SEQUENCE LISTING                    DATE: 11/01/2002
                PATENT APPLICATION:   US/10/092,900     TIME: 12:24:31

                    Input Set : N:\EBONY'S\EP.txt
                    Output Set: N:\CRF4\11012002\J092900.raw


       32601 Cys Phe Ile Ser Asp Ser Ser Ser Asp Gln Met Thr Thr Gly Thr Asn
E--> 32602         715                 720             725
       32604 Glu Asn Ala Asp Ser Met Thr Ser Met Ser Thr Pro Ser Glu Pro Gly
E--> 32605         730                 735             740
       32607 Ile Cys Arg Phe Thr Ala Ser Pro Pro Lys Pro Gln Asp Ala Asp Arg
E--> 32608 745                 750                 755                 760
       32610 Leu Leu Met Leu Val Pro Gly Ala His Leu Pro Pro Gln Ser Ile His
E--> 32611                 765                 770                 775
       32613 Val Val Ala Tyr Val Arg Ile Ser Phe Leu Leu Asn Lys Gly Gly Gly
E--> 32614                 780                 785                 790
       32616 Asp Leu Ala Ser Asp Leu Ser Ser Gly Arg Ala Cys Ser Glu Pro Arg
E--> 32617         795                 800                 805
       32619 Ser Arg Gly Thr Arg Pro Pro Thr Leu Val Ala Leu Thr Pro Ser Ser
E--> 32620         810                 815                 820
       32622 Ser Thr Cys Glu Ala Gly Asp Pro Arg Trp Gly Gln Gly Trp Arg Lys
E--> 32623 825                 830                 835                 840
       32625 Gly Arg Asp Ser Ile Met Arg Glu Gly His Arg Met Glu Glu Ala Lys
E--> 32626                 845                 850                 855
       32628 Pro Arg Glu Arg Gln Thr Ser Gly Glu Thr Glu Val His Met Glu Gly
E--> 32629         860                 865                 870
       32631 Glu Ala Gly Glu Leu Gly Ser Gly Ser Gly Ser Glu Gly Val Gly Glu
E--> 32632         875                 880                 885
       32634 Pro Ala Pro Ser Arg His Gly Gly Thr Pro His Thr Pro Ser Gln Gly
E--> 32635         890                 895                 900
       32637 Pro Pro Leu Cys
E--> 32638 905
       32757 <210> SEQ ID NO: 268
       32758 <211> LENGTH: 405
       32759 <212> TYPE: PRT
       32760 <213> ORGANISM: Homo sapiens
       32762 <400> SEQUENCE: 268
       32763 Met Gln Glu Val Leu Cys Lys Tyr Leu Pro His Thr Tyr Pro Pro His
       32764     1               5                 10                 15
       32766 Thr Tyr Pro Pro His Thr Tyr Pro Pro His Thr Tyr Leu Pro Cys Pro
       32767                 20                 25                 30
       32769 Tyr Leu Pro Pro Thr Tyr Leu Pro Arg Pro Tyr Leu Pro Pro Thr Tyr
       32770                 35                 40                 45
       32772 Leu Pro Arg Pro Tyr Leu Pro Pro Thr Tyr Leu Leu Cys Leu Tyr Leu
       32773         50                 55                 60
       32775 Trp Leu Gly Leu Trp Pro Cys Phe Leu Ala Ala Gln Ser Leu Pro Pro
       32776 65                 70                 75                 80
       32778 Pro Leu Gln Ser Gly Gly Gly Ser Arg Ala Ser Arg Ala Pro Met Leu
       32779                 85                 90                 95
       32781 Leu Val Ala Leu Val Leu Gly Ala Tyr Cys Leu Cys Ala Leu Pro Gly
       32782                 100                 105                 110
       32784 Arg Cys Pro Pro Ala Ala Arg Ala Pro Ala Pro Ala Pro Ala Pro Ser
       32785         115                 120                 125
       32787 Glu Pro Ser Ser Ser Val His Arg Pro Gly Ala Pro Gly Leu Pro Leu
       32788         130                 135                 140
```

```
      32790 Ala Ser Gly Pro Gly Arg Arg Arg Phe Pro Gln Ala Leu Ile Val Gly
      32791 145             150              155              160
      32793 Val Lys Lys Gly Gly Thr Arg Ala Leu Leu Glu Phe Leu Arg Leu His
      32794             165              170              175
      32796 Pro Asp  Arg Ala Leu Gly Ser Glu  His Phe Phe Asp Arg Cys
E--> 32797             180              185              190
      32799    Gly Leu  Trp Arg Ser Leu Met Pro Arg Thr Leu
E--> 32800          195              200              205
      32802 Asp Gly Gln Ile Thr Met Glu  Thr Pro  Tyr Phe Val Thr Arg
E--> 32803       210              215              220
      32805 Glu Ala Pro Arg Arg Ile His Ala Met Ser Pro Asp Thr Lys Leu Ile
E--> 32806 225             230              235              240
      32808 Val Val Val Arg Asn Pro Val Thr Arg Ala Ile Ser Asp  Gln
E--> 32809             245              250              255
      32811 Thr Leu Ser Lys Thr Pro Gly Leu Pro Ser Phe Arg Ala Leu Ala Phe
E--> 32812             260              265              270
      32814 Arg His Gly Leu Gly Pro Val Asp Thr Ala Trp Ser Ala Val Arg Ile
E--> 32815             275              280              285
      32817 Gly Leu Tyr Ala Gln His Leu Asp His Trp Leu Arg Tyr Phe Pro Leu
E--> 32818          290              295              300
      32820 Ser His Phe Leu Phe Val Ser Gly Glu Arg Leu Val Ser Asp Pro Ala
E--> 32821 305             310              315              320
      32823 Gly Glu Val Gly Arg Val Gln Asp Phe Leu Gly Leu Lys Arg Val Val
E--> 32824             325              330              335
      32826 Thr Asp Lys His Phe Tyr Phe Asn Ala Thr Lys Gly Phe Pro Cys Leu
E--> 32827             340              345              350
      32829 Lys Lys Ala Gln Gly Gly Ser Arg Pro Arg Cys Leu Gly Lys Ser Lys
E--> 32830          355              360              365
      32832 Gly Arg Pro His Pro Arg Val Pro Gln Ala  Val Arg Arg Leu Gln
E--> 32833       370              375              380
      32835 Glu Phe Tyr Arg Pro Phe Asn Arg Arg Phe Tyr Gln Met Thr Gly Gln
E--> 32836 385             390              395              400
      32838 Asp Phe Gly Trp Gly
E--> 32839             405
      33891 <210> SEQ ID NO: 274
      33892 <211> LENGTH: 1045
      33893 <212> TYPE: PRT
      33894 <213> ORGANISM: Homo sapiens
      33896 <400> SEQUENCE: 274
      33897 Met Thr Ala Glu Leu Gln Gln Asp Asp Ala Ala Gly Ala Ala Asp Gly
      33898   1             5              10              15
      33900 His Gly Ser Ser Cys Gln Met Leu Leu Asn Gln Leu Arg Glu Ile Thr
      33901             20              25              30
      33903 Gly Ile Gln Asp Pro Ser Phe Leu His Glu Ala Leu Lys Ala Ser Asn
      33904             35              40              45
      33906 Gly Asp Ile Thr Gln Ala Val Ser Leu Leu Thr Asp Glu Arg Val Lys
      33907       50              55              60
      33909 Glu Pro Ser Gln Asp Thr Val Ala Thr Glu Pro Ser Glu Val Glu Gly
      33910 65              70              75              80
```

Input Set : **N:\EBONY'S\EP.txt**
Output Set: **N:\CRF4\11012002\J092900.raw**

```
    34059 Lys Val Ser Val Tyr Leu Leu Thr Gly Leu Glu Leu Tyr Gln Lys Gly
    34060 865                 870             875                 880
    34062 Lys Tyr Gln Glu Ala Leu Ser Tyr Leu Val Tyr Ala Tyr Gln Ser Asn
    34063                 885             890                 895
    34065 Ala Ala Leu Leu Met Lys Gly Pro Arg Arg Gly Val Lys Glu Ser Val
    34066                 900             905                 910
    34068 Ile Ala Leu Tyr Arg Arg Lys Cys Leu Leu Glu Leu Asn Ala Lys Ala
    34069             915             920             925
    34071 Ala Ser Leu Phe Glu Thr Asn Asp Asp His Ser Val Thr Glu Gly Ile
    34072     930             935             940
    34074 Asn Val Met Asn Glu Leu Ile Ile Pro Cys Ile His Leu Ile Ile Asn
    34075 945                 950             955                 960
    34077 Asn Asp Ile Ser Lys Asp Asp Leu Asp Ala Ile Glu Val Met Arg Asn
    34078             965             970             975
    34080 His Trp Cys Ser Tyr Leu Gly Gln Asp Ile Ala Glu Asn Leu Gln Leu
    34081             980             985             990
    34083 Cys Leu Gly Glu Phe Leu Pro Arg Leu Leu Asp Pro Ser Ala Glu Ile
E--> 34084     995             000             005
    34086 Ile Val Leu Lys Glu Pro Pro Thr Ile Arg Pro Asn Ser Pro Tyr Asp
E--> 34087     010             015             020
    34089 Leu Cys Ser Arg Phe Ala Ala Val Met Glu Ser Ile Gln Gly Val Ser
E--> 34090 025             030             035             040
    34092 Thr Val Thr Val Lys
E--> 34093             045
    34830 <210> SEQ ID NO: 278
    34831 <211> LENGTH: 1045
    34832 <212> TYPE: PRT
    34833 <213> ORGANISM: Homo sapiens
    34835 <400> SEQUENCE: 278
    34836 Met Thr Ala Glu Leu Gln Gln Asp Asp Ala Ala Gly Ala Ala Asp Gly
    34837 1               5               10                  15
    34839 His Gly Ser Ser Cys Gln Met Leu Leu Asn Gln Leu Arg Glu Ile Thr
    34840                 20              25              30
    34842 Gly Ile Gln Asp Pro Ser Phe Leu His Glu Ala Leu Arg Ala Ser Asn
    34843             35              40              45
    34845 Gly Asp Ile Thr Gln Ala Val Ser Leu Leu Thr Asp Glu Arg Val Lys
    34846     50              55              60
    34848 Glu Pro Ser Gln Asp Thr Val Ala Thr Glu Pro Ser Glu Val Glu Gly
    34849 65              70              75              80
    34851 Ser Ala Ala Asn Lys Glu Val Leu Ala Lys Val Ile Asp Leu Thr His
    34852                 85              90              95
    34854 Asp Asn Lys Asp Asp Leu Gln Ala Ala Ile Ala Leu Ser Leu Leu Glu
    34855             100             105             110
    34857 Ser Pro Lys Ile Gln Ala Asp Gly Arg Asp Leu Asn Arg Met His Glu
    34858             115             120             125
    34860 Ala Thr Ser Ala Glu Thr Lys Arg Ser Lys Arg Lys Arg Cys Glu Val
    34861     130             135             140
    34863 Trp Gly Glu Asn Pro Asn Pro Asn Asp Trp Arg Arg Val Asp Gly Trp
    34864 145                 150             155                 160
```

Input Set : N:\EBONY'S\EP.txt
Output Set: N:\CRF4\11012002\J092900.raw

```
      35013 Asn Val Met Asn Glu Leu Ile Ile Pro Cys Ile His Leu Ile Ile Asn
      35014 945             950             955                 960
      35016 Asn Asp Ile Ser Lys Asp Asp Leu Asp Ala Ile Glu Val Met Arg Asn
      35017             965             970                 975
      35019 His Trp Cys Ser Tyr Leu Gly Gln Asp Ile Ala Glu Asn Leu Gln Leu
      35020             980             985                 990
      35022 Cys Leu Gly Glu Phe Leu Pro Arg Leu Leu Asp Pro Ser Ala Glu Ile
E--> 35023     995             000                 005
      35025 Ile Val Leu Lys Glu Pro Pro Thr Ile Arg Pro Asn Ser Pro Tyr Asp
E--> 35026     010             015                 020 .
      35028 Leu Cys Ser Arg Phe Ala Ala Val Met Glu Ser Ile Gln Gly Val Ser
E--> 35029 025             030                 035             040
      35031 Thr Val Thr Val Lys
E--> 35032             045
      36734 <210> SEQ ID NO: 292
      36735 <211> LENGTH: 2390
      36736 <212> TYPE: PRT
      36737 <213> ORGANISM: Homo sapiens
      36739 <400> SEQUENCE: 292
      36740 Met Lys Glu Ile Cys Arg Ile Cys Ala Arg Glu Leu Cys Gly Asn Gln
      36741   1             5               10                  15
      36743 Arg Arg Trp Ile Phe His Thr Ala Ser Lys Leu Asn Leu Gln Val Leu
      36744             20              25                  30
      36746 Leu Ser His Val Leu Gly Lys Asp Val Pro Arg Asp Gly Lys Ala Glu
      36747             35              40                  45
      36749 Phe Ala Cys Ser Lys Cys Ala Phe Met Leu Asp Arg Ile Tyr Arg Phe
      36750     50              55                  60
      36752 Asp Thr Val Ile Ala Arg Ile Glu Ala Leu Ser Ile Glu Arg Leu Gln
      36753   65              70                  75              80
      36755 Lys Leu Leu Leu Glu Lys Asp Arg Leu Lys Phe Cys Ile Ala Ser Met
      36756             85              90                  95
      36758 Tyr Arg Lys Asn Asn Asp Asp Ser Gly Ala Glu Ile Lys Ala Gly Asn
      36759             100             105                 110
      36761 Gly Thr Val Asp Met Ser Val Leu Pro Asp Ala Arg Tyr Ser Ala Leu
      36762             115             120                 125
      36764 Leu Gln Glu Asp Phe Ala Tyr Ser Gly Phe Glu Cys Trp Val Glu Asn
      36765     130             135                 140
      36767 Glu Asp Gln Ile Gln Glu Pro His Ser Cys His Gly Ser Glu Gly Pro
      36768 145             150             155                 160
      36770 Gly Asn Arg Pro Arg Arg Cys Arg Gly Cys Ala Ala Leu Arg Val Ala
      36771             165             170                 175
      36773 Asp Ser Asp Tyr Glu Ala Ile Cys Lys Val Pro Arg Lys Val Ala Arg
      36774             180             185                 190
      36776 Ser Ile Ser Cys Gly Pro Ser Ser Arg Trp Ser Thr Ser Ile Cys Thr
      36777             195             200                 205
      36779 Glu Glu Pro Ala Leu Ser Glu Val Gly Pro Pro Asp Leu Ala Ser Thr
      36780     210             215                 220
      36782 Lys Val Pro Pro Asp Gly Glu Ser Met Glu Glu Glu Thr Pro Gly Ser
      36783 225             230             235                 240
```

```
36858 625                 630               635               640
36860 Arg Gln Arg Ile His Asp Lys Ala Val Ala Leu Glu Arg Ala Ile Asp
36861               645               650               655
36863 Glu Lys Phe Ser Ala Leu Glu Glu Lys Glu Lys Glu Leu Arg Gln Leu
36864               660               665               670
36866 Arg Leu Ala Val Arg Glu Arg Asp His Asp Leu Glu Arg Leu Arg Asp
36867           675               680               685
36869 Val Leu Ser Ser Asn Glu Ala Thr Met Gln Ser Met Glu Ser Leu Leu
36870       690               695               700
36872 Arg Ala Lys Gly Leu Glu Val Glu Gln Leu Ser Thr Thr Cys Gln Asn
36873 705               710               715               720
36875 Leu Gln Trp Leu Lys Glu Glu Met Glu Thr Lys Phe Ser Arg Trp Gln
36876               725               730               735
36878 Lys Glu Gln Glu Ser Ile Ile Gln Gln Leu Gln Thr Ser Leu His Asp
36879               740               745               750
36881 Arg Asn Lys Glu Val Glu Asp Leu Ser Ala Thr Leu Leu Cys Lys Leu
36882           755               760               765
36884 Gly Pro Gly Gln Ser Glu Ile Ala Glu Glu Leu Cys Gln Arg Leu Gln
36885       770               775               780
36887 Arg Lys Glu Arg Met Leu Gln Asp Leu Leu Ser Asp Arg Asn Lys Gln
36888 785               790               795               800
36890 Val Leu Glu His Glu Met Glu Ile Gln Gly Leu Leu Gln Ser Val Ser
36891               805               810               815
36893 Thr Arg Glu Gln Glu Ser Gln Ala Ala Ala Glu Lys Leu Val Gln Ala
36894               820               825               830
36896 Leu Met Glu Arg Asn Ser Glu Leu Gln Ala Leu Arg Gln Tyr Leu Gly
36897           835               840               845
36899 Gly Arg Asp Ser Leu Met Ser Gln Ala Pro Ile Ser Asn Gln Gln Ala
36900       850               855               860
36902 Glu Val Thr Pro Thr Gly Arg Leu Gly Lys Gln Thr Asp Gln Gly Ser
36903 865               870               875               880
36905 Met Gln Ile Pro Ser Arg Asp Asp Ser Thr Ser Leu Thr Ala Lys Glu
36906               885               890               895
36908 Asp Val Ser Ile Pro Arg Ser Thr Leu Gly Asp Leu Asp Thr Val Ala
36909               900               905               910
36911 Gly Leu Glu Lys Glu Leu Ser Asn Ala Lys Glu Glu Leu Glu Leu Met
36912           915               920               925
36914 Ala Lys Lys Glu Arg Glu Ser Gln Met Glu Leu Ser Ala Leu Gln Ser
36915       930               935               940
36917 Met Met Ala Val Gln Glu Glu Glu Leu Gln Val Gln Ala Ala Asp Met
36918 945               950               955               960
36920 Glu Ser Leu Thr Arg Asn Ile Gln Ile Lys Glu Asp Leu Ile Lys Asp
36921               965               970               975
36923 Leu Gln Met Gln Leu Val Asp Pro Glu Asp Ile Pro Ala Met Glu Arg
36924               980               985               990
36926 Leu Thr Gln Glu Val Leu Leu Leu Arg Glu Lys Val Ala Ser Val Glu
E--> 36927           995               000               005
36929 Ser Gln Gly Gln Glu Ile Ser Gly Asn Arg Arg Gln Gln Leu Leu Leu
E--> 36930       010               015               020
```

```
E--> 37152          195               200               205
     37154 Gly Asp Ala Thr Asp Gly Ser Phe Ala Asn Lys His Gly Arg His Val
E--> 37155          210               215               220
     37157 Ile Gly His Ile Asp Asp Tyr Ser Ala Leu Arg Gln Gln Ile Ala Glu
E--> 37158 225               230               235               240
     37160 Gly Lys Leu Leu Val Lys Lys Ile Val Ser Leu Val Arg Ser Ala Cys
E--> 37161               245               250               255
     37163 Ser Phe Pro Gly Leu Glu Ala Gln Gly Thr Glu Val Leu Gly Ser Lys
E--> 37164               260               265               270
     37166 Gly Ile His Glu Leu Arg Ser Ser Thr Ser Ala Leu His His Ala Leu
E--> 37167          275               280               285
     37169 Glu Glu Ser Ala Ser Leu Leu Thr Met Phe Trp Arg Ala Ala Leu Pro
E--> 37170          290               295               300
     37172 Ser Thr His Ile Pro Val Leu Pro Gly Lys Val Gly Glu Ser Thr Glu
E--> 37173 305               310               315               320
     37175 Arg Glu Leu Leu Glu Leu Arg Thr Lys Val Ser Lys Gln Glu Arg Leu
E--> 37176               325               330               335
     37178 Leu Gln Ser Thr Thr Glu His Leu Lys Asn Ala Asn Gln Gln Lys Glu
E--> 37179               340               345               350
     37181 Ser Met Glu Gln Phe Ile Val Ser Gln Leu Thr Arg Thr His Asp Val
E--> 37182          355               360               365
     37184 Leu Lys Lys Ala Arg Thr Asn Leu Glu Val Lys Ser Leu Arg Ala Leu
E--> 37185          370               375               380
     37187 Pro Cys Thr Pro Ala Leu
E--> 37188 385               390
     37795 <210> SEQ ID NO: 294
     37796 <211> LENGTH: 2327
     37797 <212> TYPE: PRT
     37798 <213> ORGANISM: Homo sapiens
     37800 <400> SEQUENCE: 294
     37801 Met Ser Asn Gly Tyr Arg Thr Leu Ser Gln His Leu Asn Asp Leu Lys
     37802  1           5                   10                  15
     37804 Lys Glu Asn Phe Ser Leu Lys Leu Arg Ile Tyr Phe Leu Glu Glu Arg
     37805               20                  25                  30
     37807 Met Gln Gln Lys Tyr Glu Ala Ser Arg Glu Asp Ile Tyr Lys Arg Asn
     37808          35                  40                  45
     37810 Ile Glu Leu Lys Val Glu Val Glu Ser Leu Lys Arg Glu Leu Gln Asp
     37811     50                  55                  60
     37813 Lys Lys Gln His Leu Asp Lys Thr Trp Ala Asp Val Glu Asn Leu Asn
     37814  65               70                  75                  80
     37816 Ser Gln Asn Glu Ala Glu Leu Arg Arg Gln Phe Glu Glu Arg Gln Gln
     37817               85                  90                  95
     37819 Glu Thr Glu His Val Tyr Glu Leu Leu Glu Asn Lys Ile Gln Leu Leu
     37820               100                 105                 110
     37822 Gln Glu Glu Ser Arg Leu Ala Lys Asn Glu Ala Ala Arg Met Ala Ala
     37823          115                 120                 125
     37825 Leu Val Glu Ala Glu Lys Glu Cys Asn Leu Glu Leu Ser Glu Lys Leu
     37826          130                 135                 140
     37828 Lys Gly Val Thr Lys Asn Trp Glu Asp Val Pro Gly Asp Gln Val Lys
```

```
        37976      930                    935                    940
        37978 Asp Asp Thr Glu Asp Thr Ser Thr Glu Phe Thr Asp Ser Ile Glu Glu
        37979 945                    950                    955                    960
        37981 Glu Ala Ala His His Ser His Gln Gln Leu Val Lys Val Ala Leu Glu
        37982                    965                    970                    975
        37984 Lys Ser Leu Ala Thr Val Glu Thr Gln Asn Pro Ser Phe Ser Pro Pro
        37985                    980                    985                    990
        37987 Ser Pro Met Gly Gly Asp Ser Asn Arg Cys Leu Gln Glu Glu Met Leu
E--> 37988                    995                    000                    005
        37990 His Leu Arg Ala Glu Ile His Gln His Leu Glu Glu Lys Arg Lys Ala
E--> 37991      010                    015                    020
        37993 Glu Glu Glu Leu Lys Glu Leu Lys Ala Gln Ile Glu Glu Ala Gly Phe
E--> 37994 025                    030                    035                    040
        37996 Ser Ser Val Ser His Ile Arg Asn Thr Met Leu Ser Leu Cys Leu Glu
E--> 37997                    045                    050                    055
        37999 Asn Ala Glu Leu Lys Glu Gln Met Gly Glu Thr Met Ser Asp Gly Trp
E--> 38000                    060                    065                    070
        38002 Glu Ile Glu Glu Asp Lys Glu Lys Gly Glu Val Met Val Glu Thr Val
E--> 38003                    075                    080                    085
        38005 Val Thr Lys Glu Gly Leu Ser Glu Ser Ser Leu Gln Ala Glu Phe Arg
E--> 38006      090                    095                    100
        38008 Lys Leu Gln Gly Lys Leu Lys Asn Ala His Asn Ile Ile Asn Leu Leu·
E--> 38009 105                    110                    115                    120
        38011 Lys Glu Gln Leu Val Leu Ser Ser Lys Glu Gly Asn Ser Lys Leu Thr
E--> 38012                    125                    130                    135
        38014 Pro Glu Leu Leu Val His Leu Thr Ser Thr Ile Glu Arg Ile Asn Thr
E--> 38015                    140                    145                    150
        38017 Glu Leu Val Gly Ser Pro Gly Lys His Gln His Gln Glu Glu Gly Asn
E--> 38018                    155                    160                    165
        38020 Val Thr Val Arg Pro Phe Pro Arg Pro Gln Ser Leu Asp Leu Gly Ala
E--> 38021      170                    175                    180
        38023 Thr Phe Thr Val Asp Ala His Gln Gln Leu Asp Asn Gln Ser Gln Pro
E--> 38024 185                    190                    195                    200
        38026 Arg Asp Pro Gly Pro Gln Pro Ala Phe Ser Leu Pro Gly Ser Thr Gln
E--> 38027                    205                    210                    215
        38029 His Leu Arg Ser Gln Leu Ser Gln Cys Lys Gln Arg Tyr Gln Asp Leu
E--> 38030                    220                    225                    230
        38032 Gln Glu Lys Leu Leu Leu Ser Glu Ala Thr Val Phe Ala Gln Ala Asn
E--> 38033                    235                    240                    245
        38035 Glu Leu Glu Lys Tyr Arg Val Met Leu Ser Glu Ser Leu Val Lys Gln
E--> 38036      250                    255                    260
        38038 Asp Ser Lys Gln Ile Gln Val Asp Phe Gln Asp Leu Gly Tyr Glu Thr
E--> 38039 265                    270                    275                    280
        38041 Cys Gly Arg Ser Glu Asn Glu Ala Glu Arg Glu Glu Thr Thr Ser Pro
E--> 38042                    285                    290                    295
        38044 Glu Cys Glu Glu His Asn Ser Leu Lys Glu Met Val Leu Met Glu Gly
E--> 38045                    300                    305                    310
        38047 Leu Cys Ser Glu Gln Gly Arg Arg Gly Ser Thr Leu Ala Ser Ser Ser
E--> 38048                    315                    320                    325
```

```
      38197 Ser Ser Ala Ser Ser Thr Pro Gly Ser Asp Ser Val Val Leu Ser Phe
E--> 38198         115             120             125
      38200 Ser Phe Ser Gly Leu Gly Leu Asp Thr Ser Pro Val Met Lys Thr Pro
E--> 38201         130             135             140
      38203 Pro Lys Leu Glu Gly Asp Ala Thr Asp Gly Ser Phe Ala Asn Lys His
E--> 38204 145             150             155             160
      38206 Gly Arg His Val Ile Gly His Ile Asp Asp Tyr Ser Ala Leu Arg Gln
E--> 38207         165             170             175
      38209 Gln Ile Ala Glu Gly Lys Leu Leu Val Lys Lys Ile Val Ser Leu Val
E--> 38210         180             185             190
      38212 Arg Ser Ala Cys Ser Phe Pro Gly Leu Glu Ala Gln Gly Thr Glu Gly
E--> 38213         195             200             205
      38215 Ser Lys Gly Ile His Glu Leu Arg Ser Ser Thr Ser Ala Leu His His
E--> 38216         210             215             220
      38218 Ala Leu Glu Glu Ser Ala Ser Leu Leu Thr Met Phe Trp Arg Ala Ala
E--> 38219 225             230             235             240
      38221 Leu Pro Ser Thr His Ile Pro Val Leu Pro Gly Lys Gln Gly Glu Ser
E--> 38222         245             250             255
      38224 Thr Glu Arg Glu Leu Leu Glu Leu Arg Thr Lys Val Ser Lys Gln Glu
E--> 38225         260             265             270
      38227 Gln Leu Leu Gln Ser Thr Thr Glu His Leu Lys Asn Ala Asn Gln Gln
E--> 38228         275             280             285
      38230 Lys Glu Ser Met Glu Gln Phe Ile Val Ser Val Thr Arg Thr His Asp
E--> 38231         290             295             300
      38233 Val Leu Lys Lys Ala Arg Thr Asn Leu Glu Val Lys Ser Leu Arg Ala
E--> 38234 305             310             315             320
      38236 Leu Pro Cys Thr Pro Ala Leu
E--> 38237             325
      38840 <210> SEQ ID NO: 296
      38841 <211> LENGTH: 2265
      38842 <212> TYPE: PRT
      38843 <213> ORGANISM: Homo sapiens
      38845 <400> SEQUENCE: 296
      38846 Met Arg Pro Ala Gly Arg Thr Ser Thr Ser Gly Gly Asp Val Glu Asn
      38847   1               5              10              15
      38849 Leu Asn Ser Gln Asn Glu Ala Glu Leu Arg Arg Gln Phe Glu Glu Arg
      38850          20              25              30
      38852 Gln Gln Glu Thr Glu His Val Tyr Glu Leu Leu Glu Asn Lys Ile Gln
      38853          35              40              45
      38855 Leu Leu Gln Glu Glu Ser Arg Leu Ala Lys Asn Glu Ala Ala Arg Met
      38856      50              55              60
      38858 Ala Ala Leu Val Glu Ala Glu Lys Glu Cys Asn Leu Glu Leu Ser Glu
      38859 65              70              75              80
      38861 Lys Leu Lys Gly Val Thr Lys Asn Trp Glu Asp Val Pro Gly Asp Gln
      38862              85              90              95
      38864 Val Lys Pro Asp Gln Tyr Thr Glu Thr Leu Ala Gln Arg Asp Lys Arg
      38865          100             105             110
      38867 Ile Glu Glu Leu Asn Gln Ser Leu Ala Ala Gln Glu Arg Leu Val Glu
      38868          115             120             125
```

RAW SEQUENCE LISTING   DATE: 11/01/2002
PATENT APPLICATION: US/10/092,900   TIME: 12:24:31

Input Set : N:\EBONY'S\EP.txt
Output Set: N:\CRF4\11012002\J092900.raw

```
      39017 Leu Glu Lys Ser Leu Ala Thr Val Glu Thr Gln Asn Pro Ser Phe Ser
      39018         915             920             925
      39020 Pro Pro Ser Pro Met Gly Gly Asp Ser Asn Arg Cys Leu Gln Glu Glu
      39021     930             935             940
      39023 Met Leu His Leu Arg Ala Glu Ile His Gln His Leu Glu Glu Lys Arg
      39024 945             950             955             960
      39026 Lys Ala Glu Glu Glu Leu Lys Glu Leu Lys Ala Gln Ile Glu Glu Ala
      39027         965             970             975
      39029 Gly Phe Ser Ser Val Ser His Ile Arg Asn Thr Met Leu Ser Leu Cys
      39030         980             985             990
      39032 Leu Glu Asn Ala Glu Leu Lys Glu Gln Met Gly Glu Thr Met Ser Asp
E--> 39033         995             000             005
      39035 Gly Trp Glu Ile Glu Glu Asp Lys Glu Lys Gly Glu Val Met Val Glu
E--> 39036         010             015             020
      39038 Thr Val Val Thr Lys Glu Gly Leu Ser Glu Ser Ser Leu Gln Ala Glu
E--> 39039 025             030             035             040
      39041 Phe Arg Lys Leu Gln Gly Lys Leu Lys Asn Ala His Asn Ile Ile Asn
E--> 39042         045             050             055
      39044 Leu Leu Lys Glu Gln Leu Val Leu Ser Ser Lys Glu Gly Asn Ser Lys
E--> 39045         060             065             070
      39047 Leu Thr Pro Glu Leu Leu Val His Leu Thr Ser Thr Ile Glu Arg Ile
E--> 39048         075             080             085
      39050 Asn Thr Glu Leu Val Gly Ser Pro Gly Lys His Gln His Gln Glu Glu
E--> 39051         090             095             100
      39053 Gly Asn Val Thr Val Arg Pro Phe Pro Arg Pro Gln Ser Leu Asp Leu
E--> 39054 105             110             115             120
      39056 Gly Ala Thr Phe Thr Val Asp Ala His Gln Gln Leu Asp Asn Gln Ser
E--> 39057         125             130             135
      39059 Gln Pro Arg Asp Pro Gly Pro Gln Pro Ala Phe Ser Leu Pro Gly Ser
E--> 39060         140             145             150
      39062 Thr Gln His Leu Arg Ser Gln Leu Ser Gln Cys Lys Gln Arg Tyr Gln
E--> 39063         155             160             165
      39065 Asp Leu Gln Glu Lys Leu Leu Leu Ser Glu Ala Thr Val Phe Ala Gln
E--> 39066         170             175             180
      39068 Ala Asn Glu Leu Glu Lys Tyr Arg Val Met Leu Ser Glu Ser Leu Val
E--> 39069 185             190             195             200
      39071 Lys Gln Asp Ser Lys Gln Ile Gln Val Asp Phe Gln Asp Leu Gly Tyr
E--> 39072         205             210             215
      39074 Glu Thr Cys Gly Arg Ser Glu Asn Glu Ala Glu Arg Glu Glu Thr Thr
E--> 39075         220             225             230
      39077 Ser Pro Glu Cys Glu Glu His Asn Ser Leu Lys Glu Met Val Leu Met
E--> 39078         235             240             245
      39080 Glu Gly Leu Cys Ser Glu Gln Gly Arg Arg Gly Ser Thr Leu Ala Ser
E--> 39081         250             255             260
      39083 Ser Ser Glu Arg Lys Pro Leu Glu Asn Gln Leu Gly Lys Gln Glu Glu
E--> 39084 265             270             275             280
      39086 Phe Arg Val Tyr Gly Lys Ser Glu Asn Ile Leu Val Leu Arg Lys Asp
E--> 39087         285             290             295
      39089 Ile Glu Asp Leu Lys Ala Gln Leu Gln Asn Ala Asn Lys Val Ile Gln
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/092,900

DATE: 11/01/2002
TIME: 12:24:31

Input Set : N:\EBONY'S\EP.txt
Output Set: N:\CRF4\11012002\J092900.raw

```
E--> 39237                085              090              095
     39239 Lys His Gly Arg His Val Ile Gly His Ile Asp Asp Tyr Ser Ala Leu
E--> 39240           100              105              110
     39242 Arg Gln Gln Ile Ala Glu Gly Lys Leu Leu Val Lys Lys Ile Val Ser
E--> 39243           115              120          125
     39245 Leu Val Arg Ser Ala Cys Ser Phe Pro Gly Leu Glu Ala Gln Gly Thr
E--> 39246      130              135              140
     39248 Glu Gly Ser Lys Gly Ile His Glu Leu Arg Ser Ser Thr Ser Ala Leu
E--> 39249 145              150              155              160
     39251 His His Ala Leu Glu Glu Ser Ala Ser Leu Leu Thr Met Phe Trp Arg
E--> 39252           165              170              175
     39254 Ala Ala Leu Pro Ser Thr His Ile Pro Val Leu Pro Gly Lys Gln Gly
E--> 39255           180              185              190
     39257 Glu Ser Thr Glu Arg Glu Leu Leu Glu Leu Arg Thr Lys Val Ser Lys
E--> 39258           195              200              205
     39260 Gln Glu Gln Leu Leu Gln Ser Thr Thr Glu His Leu Lys Asn Ala Asn
E--> 39261      210              215              220
     39263 Gln Gln Lys Glu Ser Met Glu Gln Phe Ile Val Ser Val Thr Arg Thr
E--> 39264 225              230              235              240
     39266 His Asp Val Leu Lys Lys Ala Arg Thr Asn Leu Glu Val Lys Ser Leu
E--> 39267           245              250              255
     39269 Arg Ala Leu Pro Cys Thr Pro Ala Leu
E--> 39270           260              265
     40126 <210> SEQ ID NO: 304
     40127 <211> LENGTH: 1354
     40128 <212> TYPE: PRT
     40129 <213> ORGANISM: Homo sapiens
     40131 <400> SEQUENCE: 304
     40132 Met Asp Leu Glu Ala Ala Lys Asn Gly Thr Ala Trp Arg Pro Thr Ser
     40133    1              5              10              15
     40135 Ala Glu Gly Asp Phe Glu Leu Gly Ile Ser Ser Lys Gln Lys Arg Lys
     40136           20              25              30
     40138 Lys Thr Lys Thr Val Lys Met Ile Gly Val Leu Thr Leu Phe Arg Tyr
     40139           35              40              45
     40141 Ser Asp Trp Gln Asp Lys Leu Phe Met Ser Leu Gly Thr Ile Met Ala
     40142      50              55              60
     40144 Ile Ala His Gly Ser Gly Leu Pro Leu Met Met Ile Val Phe Gly Glu
     40145 65              70              75              80
     40147 Met Thr Asp Lys Phe Val Asp Thr Ala Gly Asn Phe Ser Phe Pro Val
     40148           85              90              95
     40150 Asn Phe Ser Leu Ser Leu Leu Asn Pro Gly Lys Ile Leu Glu Glu Glu
     40151           100              105              110
     40153 Met Thr Arg Tyr Ala Tyr Tyr Tyr Ser Gly Leu Gly Ala Gly Val Leu
     40154           115              120          125
     40156 Val Ala Ala Tyr Ile Gln Val Ser Phe Trp Thr Leu Ala Ala Gly Arg
     40157      130              135              140
     40159 Gln Ile Arg Lys Ile Arg Gln Lys Phe Phe His Ala Ile Leu Arg Gln
     40160 145              150              155              160
     40162 Glu Ile Gly Trp Phe Asp Ile Asn Asp Thr Thr Glu Leu Asn Thr Arg
```

```
     40310 945              950              955              960
     40312 Ser His Ala Phe Ile Tyr Phe Ala Tyr Ala Ala Gly Phe Arg Phe Gly
     40313              965              970              975
     40315 Ala Tyr Leu Ile Gln Ala Gly Arg Met Ser Asn Ala Leu Ser Phe Asp
     40316          980              985              990
     40318 Arg Val Phe Thr Ala Ile Ala Tyr Gly Ala Met Ala Ile Gly Glu Thr
E--> 40319          995              000              005
     40321 Leu Val Leu Ala Pro Glu Tyr Ser Lys Ala Lys Ser Gly Ala Ala His
E--> 40322      010              015              020
     40324 Leu Phe Ala Leu Leu Glu Lys Lys Pro Asn Ile Asp Ser Arg Ser Gln
E--> 40325 025              030              035              040
     40327 Glu Gly Lys Lys Pro Leu Ser Gln Asp Thr Cys Glu Gly Asn Leu Glu
E--> 40328              045              050              055
     40330 Phe Arg Glu Val Ser Phe Phe Tyr Pro Cys Arg Pro Asp Val Phe Ile
E--> 40331          060              065              070
     40333 Leu Arg Gly Leu Ser Leu Ser Ile Glu Arg Gly Lys Thr Val Ala Phe
E--> 40334          075              080              085
     40336 Val Gly Ser Ser Gly Cys Gly Lys Ser Thr Ser Val Gln Leu Leu Gln
E--> 40337      090              095              100
     40339 Arg Leu Tyr Asp Pro Val Gln Gly Gln Gln Leu Phe Asp Gly Val Asp
E--> 40340 105              110              115              120
     40342 Ala Lys Glu Leu Asn Val Gln Trp Leu Arg Ser Gln Ile Ala Ile Val
E--> 40343          125              130              135
     40345 Pro Gln Glu Pro Val Leu Phe Asn Cys Ser Ile Ala Glu Asn Ile Ala
E--> 40346          140              145              150
     40348 Tyr Gly Asp Asn Ser Arg Val Val Pro Leu Asp Glu Ile Lys Glu Ala
E--> 40349          155              160              165
     40351 Ala Asn Ala Ala Asn Ile His Ser Phe Ile Glu Gly Leu Pro Lys Tyr
E--> 40352      170              175              180
     40354 Asn Thr Gln Val Gly Leu Lys Gly Ala Gln Leu Ser Gly Gly Gln Lys
E--> 40355 185              190              195              200
     40357 Gln Arg Leu Ala Ile Ala Arg Ala Leu Leu Gln Lys Pro Lys Ile Leu
E--> 40358          205              210              215
     40360 Leu Leu Asp Glu Ala Thr Ser Ala Leu Asp Asn Asp Ser Glu Lys Val
E--> 40361          220              225              230
     40363 Gln Val Val Gln His Ala Leu Asp Lys Ala Arg Thr Gly Arg Thr Cys
E--> 40364          235              240              245
     40366 Leu Val Val Thr His Arg Leu Ser Ala Ile Gln Asn Ala Asp Leu Ile
E--> 40367      250              255              260
     40369 Val Val Leu His Asn Gly Lys Ile Lys Glu Gln Gly Thr His Gln Glu
E--> 40370 265              270              275              280
     40372 Leu Leu Arg Asn Arg Asp Ile Tyr Phe Lys Leu Val Asn Ala Gln Ser
E--> 40373          285              290              295
     40375 Ala Ser Lys Gly Arg Thr Thr Ile Val Val Ala His Arg Leu Ser Thr
E--> 40376          300              305              310
     40378 Ile Arg Ser Ala Asp Leu Ile Val Thr Leu Lys Asp Gly Met Leu Ala
E--> 40379          315              320              325
     40381 Glu Lys Gly Ala His Ala Glu Leu Met Ala Lys Arg Gly Leu Tyr Tyr
E--> 40382      330              335              340
```

RAW SEQUENCE LISTING   DATE: 11/01/2002
PATENT APPLICATION: US/10/092,900   TIME: 12:24:32

              Input Set : N:\EBONY'S\EP.txt
              Output Set: N:\CRF4\11012002\J092900.raw

```
      40384 Ser Leu Val Met Ser Gln Val Met Leu Met
E--> 40385 345                 350
      45271 <210> SEQ ID NO: 348
      45272 <211> LENGTH: 1033
      45273 <212> TYPE: PRT
      45274 <213> ORGANISM: Homo sapiens
      45276 <400> SEQUENCE: 348
      45277 Met Gly Pro Pro Phe Ser Thr Arg Glu Thr Ser Thr Leu Cys Glu Pro
      45278   1                 5                 10                 15
      45280 Lys Gly Arg Arg Leu Arg Pro Arg Gln Arg Asn Gln Glu Asn Val
      45281               20                 25                 30
      45283 Thr Lys Asn Ser Leu Lys Leu Pro Gly Pro Leu Gln Glu Gln Thr Gly
      45284             35                 40                 45
      45286 Leu Gly Pro Pro His Leu Gly Ser Glu Leu Gly Leu His Gly Gly Asp
      45287       50                 55                 60
      45289 Thr Trp Asp Tyr Lys Ser His Val Met Thr Lys Phe Ala Glu Glu Glu
      45290   65                 70                 75                 80
      45292 Asp Val Arg Arg Ser Phe Glu Asn Thr Ala Ala Asp Trp Pro Glu Met
      45293               85                 90                 95
      45295 Gln Thr Leu Ala Gly Ala Phe Asp Ser Asp Arg Trp Gly Phe Arg Pro
      45296             100                105                110
      45298 Arg Thr Val Val Leu His Gly Lys Ser Gly Ile Gly Lys Ser Ala Leu
      45299             115                120                125
      45301 Ala Arg Arg Ile Val Leu Cys Trp Ala Gln Gly Gly Leu Tyr Gln Gly
      45302       130                135                140
      45304 Met Phe Ser Tyr Val Phe Phe Leu Pro Val Arg Glu Met Gln Arg Lys
      45305 145                150                155                160
      45307 Lys Glu Ser Ser Val Thr Glu Phe Ile Ser Arg Glu Trp Pro Asp Ser
      45308               165                170                175
      45310 Gln Ala Pro Val Thr Glu Ile Met Ser Arg Pro Glu Arg Leu Leu Phe
      45311             180                185                190
      45313 Ile Ile Asp Gly Phe Asp Asp Leu Gly Ser Val Leu Asn Asn Asp Thr
      45314             195                200                205
      45316 Lys Leu Cys Lys Asp Trp Ala Glu Lys Gln Pro Pro Phe Thr Leu Ile
      45317       210                215                220
      45319 Arg Ser Leu Leu Arg Lys Val Leu Leu Pro Glu Ser Phe Leu Ile Val
      45320 225                230                235                240
      45322 Thr Val Arg Asp Val Gly Thr Glu Lys Leu Lys Ser Glu Val Val Ser
      45323               245                250                255
      45325 Pro Arg Tyr Leu Leu Val Arg Gly Ile Ser Gly Glu Gln Arg Ile His
      45326             260                265                270
      45328 Leu Leu Leu Glu Arg Gly Ile Gly Glu His Gln Lys Thr Gln Gly Leu
      45329             275                280                285
      45331 Arg Ala Ile Met Asn Asn Arg Glu Leu Leu Asp Gln Cys Gln Val Pro
      45332       290                295                300
      45334 Ala Val Gly Ser Leu Ile Cys Val Ala Leu Gln Leu Gln Asp Val Val
      45335 305                310                315                320
      45337 Gly Glu Ser Val Ala Pro Phe Asn Gln Thr Leu Thr Gly Leu His Ala
      45338               325                330                335
```

RAW SEQUENCE LISTING   DATE: 11/01/2002
PATENT APPLICATION: US/10/092,900   TIME: 12:24:32

Input Set : N:\EBONY'S\EP.txt
Output Set: N:\CRF4\11012002\J092900.raw

```
45413                725              730              735
45415 Asn Lys Val Thr Asp Gln Gly Val Met Pro Leu Ser Asp Ala Leu Arg
45416         740              745              750
45418 Val Ser Gln Cys Ala Leu Gln Lys Leu Ile Leu Glu Asp Cys Gly Ile
45419         755              760              765
45421 Thr Ala Thr Gly Cys Gln Ser Leu Ala Ser Ala Leu Val Ser Asn Arg
45422     770              775              780
45424 Ser Leu Thr His Leu Cys Leu Ser Asn Asn Ser Leu Gly Asn Glu Gly
45425 785              790              795              800
45427 Val Asn Leu Leu Cys Arg Ser Met Arg Leu Pro His Cys Ser Leu Gln
45428         805              810              815
45430 Arg Leu Met Leu Asn Gln Cys His Leu Asp Thr Ala Gly Cys Gly Phe
45431         820              825              830
45433 Leu Ala Leu Ala Leu Met Gly Asn Ser Trp Leu Thr His Leu Ser Leu
45434         835              840              845
45436 Ser Met Asn Pro Val Glu Asp Asn Gly Val Lys Leu Leu Cys Glu Val
45437     850              855              860
45439 Met Arg Glu Pro Ser Cys His Leu Gln Asp Leu Glu Leu Val Lys Cys
45440 865              870              875              880
45442 His Leu Thr Ala Ala Cys Cys Glu Ser Leu Ser Cys Val Ile Ser Arg
45443         885              890              895
45445 Ser Arg His Leu Lys Ser Leu Asp Leu Thr Asp Asn Ala Leu Gly Asp
45446         900              905              910
45448 Gly Gly Val Ala Ala Leu Cys Glu Gly Leu Lys Gln Lys Asn Ser Val
45449     915              920              925
45451 Leu Thr Arg Leu Gly Leu Lys Ala Cys Gly Leu Thr Ser Asp Cys Cys
45452     930              935              940
45454 Glu Ala Leu Ser Leu Ala Leu Ser Cys Asn Arg His Leu Thr Ser Leu
45455 945              950              955              960
45457 Asn Leu Val Gln Asn Asn Phe Ser Pro Lys Gly Met Met Lys Leu Cys
45458         965              970              975
45460 Ser Ala Phe Ala Cys Pro Thr Ser Asn Leu Gln Ile Ile Gly Leu Trp
45461         980              985              990
45463 Lys Trp Gln Tyr Pro Val Gln Ile Arg Lys Leu Leu Glu Glu Val Gln
E--> 45464     995              000              005
45466 Leu Leu Lys Pro Arg Val Val Ile Asp Gly Ser Trp His Ser Phe Asp
E--> 45467     010              015              020
45469 Glu Asp Asp Arg Tyr Trp Trp Lys Asn
E--> 45470 025              030
```

52052 <210> SEQ ID NO: 768
52053 <211> LENGTH: 22
52055 <212> TYPE: DNA
52056 <213> ORGANISM: Artificial Sequence
52058 <220> FEATURE:
W--> 52059 <221> NAME/KEY: [Description of Artificial Sequence: [Reverse Primer] *bolongs in 223*
W--> 52061 <223> OTHER INFORMATION:
W--> 52061 <400>768
52062 cagagcttca cgaagttctt ct   22
E--> 52066 (875) -delete

RAW SEQUENCE LISTING   DATE: 11/01/2002
PATENT APPLICATION: **US/10/092,900**   TIME: 12:24:32

Input Set : **N:\EBONY'S\EP.txt**
Output Set: **N:\CRF4\11012002\J092900.raw**

E--> 52068(1)-delete

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 11/01/2002
PATENT APPLICATION: US/10/092,900   TIME: 12:24:33

Input Set : **N:\EBONY'S\EP.txt**
Output Set: **N:\CRF4\11012002\J092900.raw**

<u>Use of <220> Feature(NEW RULES):</u>
Sequence(s)__are missing the <220> Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence"
or"Unknown". Please explain source of genetic material in <220> to <223>
section (See "Federal Register," 6/01/98, Vol. 63, No. 104,pp.29631-32)
(Sec.1.823 of new Rules)

```
Seq#:357,358,359,360,361,362,363,364,365,366,367,368,369,370,371,372,373,374
Seq#:375,376,377,378,379,380,381,382,383,384,385,386,387,388,389,390,391,392
Seq#:393,394,395,396,397,398,399,400,401,402,403,404,405,406,407,408,409,410
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Seq#:699,700,701,702,703,704,705,706,707,708,709,710,711,712,713,714,715,716
Seq#:717,718,719,720,721,722,723,724,725,726,727,728,729,730,731,732,733,734
Seq#:735,736,737,738,739,740,741,742,743,744,745,746,747,748,749,750,751,752
Seq#:753,754,755,756,757,758,759,760,761,762,763,764,765,766,767,768
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